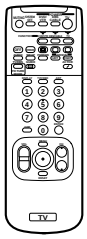
Self Diagnosis Supported model

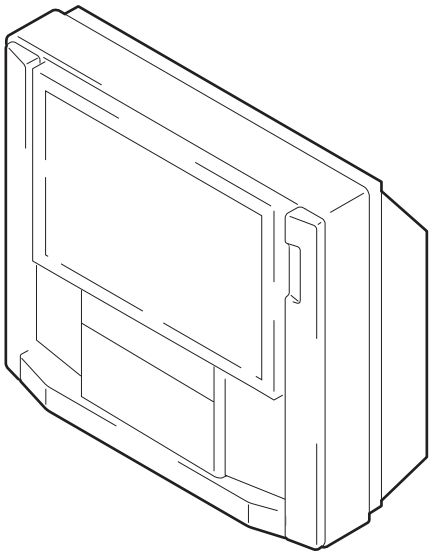
SERVICE MANUAL DR-1 CHASSIS

MODEL	COMMANDER	DEST.	CHASSIS NO.
KWP-65HD1	RM-Y904	US	SCC-PO8A-A
KWP-65HD1	RM-Y904	Canadian	SCC-PO8A-A

MODEL	COMMANDER	DEST.	CHASSIS NO.

The service manual for SET TOP BOX(DTR-HD1) have been issued separately (9-965-854-01)





MICROFILM

* Please file according to model size. ..... ☐

65

HDTV Projection TV

SONY®

SPECIFICATIONS

Projection system 3 picture tubes, 3 lenses, horizontal in-line system

Picture tube 7-inch high-brightness monochrome tubes (6.3 raster size), with optical coupling and liquid cooling system

Projection lenses High performance, large diameter hybrid lens F1.05

Television system American TV standard

Channel coverage DTV:2-69
VHF: 2–13/UHF: 14 –69
CATV: 1 – 125

Antenna 75 ohm external terminal for VHF/UHF

Screen size (measured diagonally)
65 inches

Inputs/outputs on the upper panel

VIDEO 1/3 IN
VIDEO 2 INPUT
S VIDEO IN (4-pin mini DIN):
Y: 1 Vp-p, 75-ohms unbalanced, sync negative
C: 0.286 Vp-p (Burst signal), 75 ohms
VIDEO (phono jack):
1 Vp-p,75-ohms unbalanced, sync negative
AUDIO (phono jacks):
500 mVrms (100% modulation), Impedance: 47 kilohms
VIDEO 4 IN
S VIDEO IN (4-pin mini DIN):
Y: 1 Vp-p, 75-ohms unbalanced, sync negative
C: 0.286 Vp-p (Burst signal), 75 ohms
VIDEO (phono jack):
1 Vp-p, 75-ohms unbalanced, sync negative
AUDIO (phono jacks):
500 mVrms (100% modulation), Impedance: 47 kilohms
Y: 1 Vp-p, 75 ohms, sync negative
PB: 0.7 Vp-p, 75 ohms
PR: 0.7 Vp-p, 75 ohms
VIDEO 5 (HD) IN : Maximum scaning rate 1080i
Y: 1 Vp-p, 75-ohms, negative or tri-level sync
PB: 0.7 Vp-p, 75 ohms
PR: 0.7 Vp-p, 75 ohms
or
G: 0.7 Vp-p
B: 0.7 Vp-p
R: 0.7 Vp-p
HD:0.5-5 Vp-p , 2.2kilohms
VD:0.6-5 Vp-p , 2.2kilohms

Note:The VIDEO 5 (HD) IN jack are not compatible with a computers 5BNC (R/G/B/HD/VD) video output connectors.

AUDIO (phono jacks):
500 mVrms (100% modulation), Impedance: 47 kilohms
SELECT OUT
VIDEO(phono jack): 1 Vp-p, 75 ohms unbalanced, sync negative
AUDIO(phono jacks): 470mVrms (100% modulation), Impedance:47 kilohms
AUDIO (VAR) OUT (phono jacks): 950 mVrms (100% modulation)
AUDIO (FIX) OUT (phono jacks): 500 mVrms (100% modulation)

Inputs/outputs on the lower panel

VIDEO 1/2 IN
S VIDEO OUT(4-pin mini DIN):
Y: 1 Vp-p, 75-ohms unbalanced, sync negative
C: 0.286 Vp-p (Burst signal), 75 ohms
VIDEO (phono jack):
1 Vp-p, 75-ohms unbalanced, sync negative
AUDIO (phono jacks):
470 mVrms (100% modulation), Impedance: 47 kilohms
VIDEO 3/4 IN
Analog RGB/Component (phono jack)
Y: 1 Vp-p, 75 ohms, sync negative
PB: 0.7 Vp-p, 75 ohms
PR: 0.7 Vp-p, 75 ohms
R/G/B: 0.7 Vp-p, 75 ohms
HD SYNC: 3 Vp-p, positive
VD SYNC: 3 Vp-p, positive
DOLBY DIGITAL OUT (OPTICAL)
(optical output connector):
-18 dBm, wave length: 660 nm
S-LINK minijacks
CONTROL S IN/OUT :minijacks
Speaker
Front (Tweeter): 70mm (2)
Front(Super Tweeter): 30mm(11/4)X2
Front (Woofer): 130mm (5) x 2
Front (Center): 100mm (4) x 2
Rear:70mm(23/4)x4

Speaker output Front: 20 W x 2
Center: 20 W x 1
Rear: 10 W x 2

Power requirement 120 V AC, 60 Hz

Power consumption In use (Max.): 300 W
In standby: 1 W

Dimensions (W/H/D) 1,767 x 1,570 x 738 mm
(52 1/8 x 56 3/4 x 24 1/2 inches)

Mass 217 kg (428 lbs 6 oz)

Supplied accessories Remote control RM-Y904(1)
Batteries (2) size AA (R6)
Rear speakers (2)
Speaker cords (2)

Optional accessories Connecting cables
PK-G34, RK-74A, RKG-69HG, VMC-10HG, VMC-720M, VMC-810S/820S, YC-15V/30V, Optical digital canle
U/V mixer EAC-66

Design and specifications are subject to change without notice.

SAFETY CHECK-OUT

(US model only)

After correcting the original service problem, perfom the following safety checks before releasing the set to the customer:

1. Check the area of your repair for unsoldered or poorly-soldered connections. Check the entire board surface for solder splashes and bridges.
2. Check the interboard wiring to ensure that no wires are "pinched" or contact high-wattage resistors.
3. Check that all control knobs, shields, covers, ground straps, and mounting hardware have been replaced. Be absolutely certain that you have replaced all the insulators.
4. Look for unauthorized replacement parts, particularly transistors, that were installed during a previous repair. Point them out to the customer and recommend their replacement.
5. Look for parts which, through functioning, show obvious signs of deterioration. Point them out to the customer and recom mend their replacement.
6. Check the line cords for cracks and abrasion. Recommend the replacement of any such line cord to the customer.
7. Check the condition of the monopole antenna (if any). Make sure the end is not broken off, and has the plastic cap on it. Point out the danger of impalement on a broken antenna to the customer, and recommend the antenna's replacement.
8. Check the B+ and HV to see they are at the values specified. Make sure your instruments are accurate;be suspicious of your HV meter if sets always have low HV.
9. Check the antenna temminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5mA (500 microampers) . Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to usc these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. NearIy all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)

HOW TO FIND A GOOD EARTH GROUND

A cold-water pipe is guaranteed earth ground;the cover-plate retaining screw on most AC outlet boxes is also at earth ground. If the retaining screw is to be used as your earth-ground, verify that it is at ground by measuring the resistance between it and a cold-water pipe with an ohmmeter. The reading should be zero ohms. If a cold-water pipe is not accessible, connect a 60-l00 watts trouble light (not a neon lamp) between the hot side of the receptacle and the retaining screw. Try both slots, if necessary, to locate the hot side of the line, the lamp should light at normal brilliance if the screw is at ground potential. (See Fig. B)

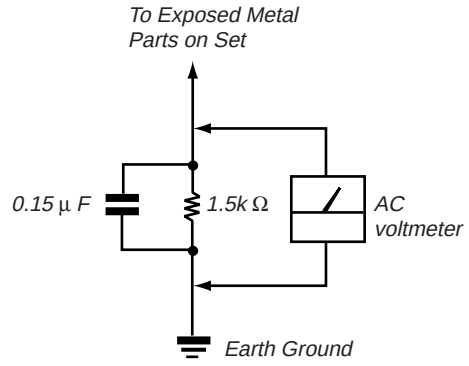


Fig. A. Using an AC voltmeter to check AC ieakage.

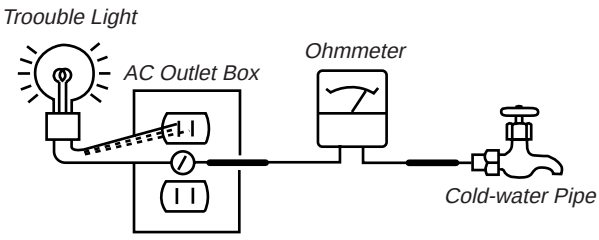


Fig. B. Checking for earth ground.

SELF DIAGNOSIS FUNCTION

1. Summary of Self-Diagnosis Function

- This device includes a self-diagnosis function.
- In case of abnormalities, the Standby/Sleep lamp automatically blinks. It is possible to predict the abnormality location by the number of blinks. The Instruction Manual describes blinking of the Standby/Sleep lamp.
- If the symptom is not reproduced sometimes in case of a malfunction, there is recording of whether a malfunction was generated or not. Operate the remote command to confirm the matter on the screen and to predict the location of the abnormality.

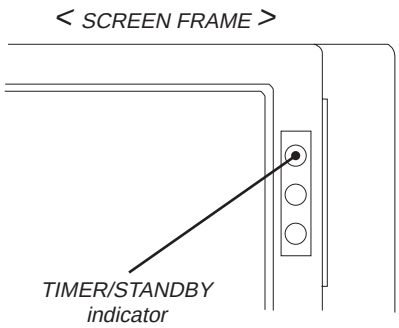
2. Diagnosis Items and Prediction of Malfunction Location

- When a malfunction occurs the Standby/Sleep lamp only blinks for one of the following diagnosis items. In case of two or more malfunctions, the item which first occurred blinks. If the malfunctions occurred simultaneously, the item with the lower blink count blinks first.
- The screen display displays the results regarding all the diagnosis items listed below. The display " 0 " means that no malfunctions occurred.

Diagnosis item	Standby/ sleep lamp, Number of blinks	Self-diagnosis screen display, Diagnosis item: Results
• Power not ON	Not lit	
+B OCP detection	LED blinks 2 times	2 : +B OCP XX
+B OVP detection	LED blinks 3 times	3 : +B OVP XX
V horizontal detection	LED blinks 4 times	4 : V STOP XX
AKB detection	LED blinks 5 times	5 : AKB XX
H vertical detection	LED blinks 6 times	6 : H STOP XX
HV abnormality detection	LED blinks 7 times	7 : HV XX
Audio abnormality detection	LED blinks 8 times	8 : AUDIO XX

∗ : XX the range of values for number of operations is 00-99. For 99 or higher there is no count up and the number remains at 99.

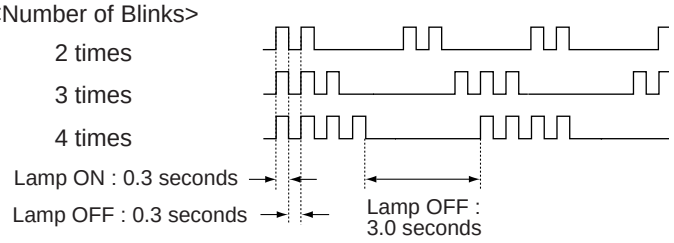
3. Blinking count display of Standby/Sleep lamp



∗ One blink is not used for self-diagnosis.

•EXAMPLE

<Diagnosis Items>	<Number of Blinks>
• +B overcurrent	2 times
• +B overvoltage	3 times
• Vertical deflection stop	4 times



Release of Standby/Sleep lamp blinking.

- The Standby/Sleep lamp blinking display is released by turning OFF the power switch on the TV main unit or removing the plug from the power.

4. Self-diagnosis screen displays

- In cases of malfunctions where it is not possible to determine the symptom such as when the power goes off occasionally or when the screen disappears occasionally, there is a screen display on whether the malfunction occurred or not in the past (and whether the detection circuit operated or not) in order to allow confirmation.

<Screen Display Method>

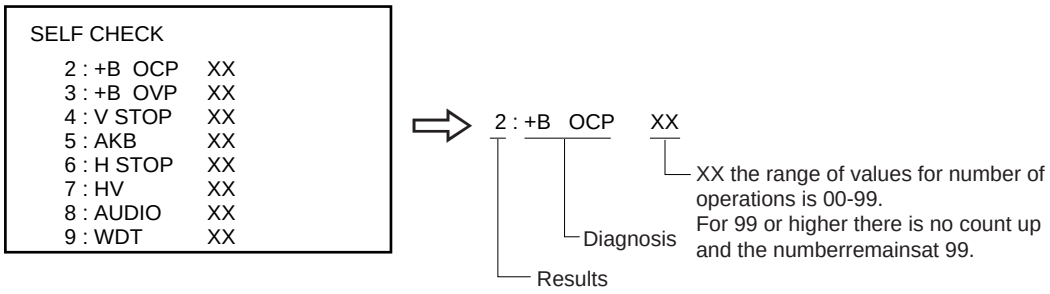
- Quickly press the remote command button in the following order from the standby state.

Display ➡ Channel 5 ➡ Volume — ➡ Power ON

⇧

Be aware that this differs from the method of entering the service mode (volume +).

Self-diagnosis screen display


SELF CHECK
2 : +B OCP XX
3 : +B OVP XX
4 : V STOP XX
5 : AKB XX
6 : H STOP XX
7 : HV XX
8 : AUDIO XX
9 : WDT XX
2 : +B OCP XX
XX the range of values for number of operations is 00-99.
For 99 or higher there is no count up and the numberremainsat 99.
Diagnosis
Results

5. Self-Diagnosis Screen Display

- The results display is not automatically cleared. In case of repairs and after repairs, check the self-diagnosis screen and be sure to return the results display to " 0 ".
- If the results display is not returned to " 0 " it will not be possible to judge a new malfunction after completing repairs.

<Method of Clearing Results Display>

- When returning the results display to " 0 " (clear), press the remote command buttons in the following order when the diagnosis screen is displayed.
- Be aware that, when carrying this out in the speed mode, all the other electrical adjustment data will be rewritten.

Channel 8 ➡ ENTER

<Method of Ending Self Diagnosis Screen>

- When ending the self-diagnosis screen completely, turn the power switch OFF on the remote commander or the main unit.

TABLE OF CONTENTS

Section	Title	Page
1.	**GENERAL**	
	Remote Control	7
	Installing and Connecting the Projection TV	7
	Basic Set Up	16
	Using Digital TV Feautres	18
	Using Conventional TV Features	22
	Operating Video Equipment	40
	Operating a Cable Box or DBS Receiver	41
	Troubleshooting	42
2.	**DISASSEMBLY**	
2-1.	Front Panel Removal	44
2-2.	HB Board Removal	44
2-3.	Screen Frame Assy and HC Board Removal	44
2-4.	HA Board and Control Panel Removal	44
2-5.	Rear Board Removal	45
2-6.	Main Bracket Removal	45
2-7.	Service Position	45
2-8.	UA, UB and Terminal Board Removal	45
2-9.	BD, BR, BM and AW Boards Removal	46
2-10.	G Board Removal	46
2-11.	K Board Removal	46
2-12.	Reflection Mirror Removal	47
2-13.	GA Board and STB(SET TOP BOX) Removal	47
2-14.	Picture Tube Removal	48
2-12.	High-Voltage Cable Installation and Removal	48
3.	**SET-UP ADJUSTMENTS**	**49**
4.	**SAFETY RELATED ADJUSTMENTS**	64
5.	**CIRCUIT ADJUSTMENTS**	66
6.	**DIAGRAMS**	
6-1.	Block diagram (1)	71
	Block diagram (2)	74
	Block diagram (3)	77
	Block diagram (4)	80
	Block diagram (5)	83
	Block diagram (6)	86
	Block diagram (7)	89
	Block diagram (8)	91
6-2.	Frame Schematic Diagram	93
6-3.	Circuit Boards Location	97
6-4.	Printed Wiring Boards and Schematic Diagrams	97
	• A (1/4) Board	98
	• A (2/4) Board	101
	• A (4/4) Board	105
	• A (3/4) Board	109
	• BD Board	113
	• BM Board	119
	• BR (1/3) Board	125
	• BR (2/3) Board	129
	• BR (3/3) Board	133
	• G Board	137
	• K Board	144
	• D (1/2) Board	153
	• D (2/2) Board	156
	• UA Board	159
	• UB Board	162
	• AW Board	165
	• CR, CG Boards	168
	• CB, ZR Boards	171
	• ZG, ZB Boards	174
	• HA, HB, HC Boards	177
	• GA,GB Boards	179
6-5.	Semiconductors	180
7.	**EXPLODED VIEWS**	
7-1.	Cover (LOWER SECTION)	183
7-2.	Cover (UPPER SECTION)	184
7-3.	Chassis	185
7-4.	Picture Tube	186
8.	**ELECTRICAL PARTS LIST**	187

(CAUTION)

SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAP TO THE METAL CHASSIS, CRT SHIELD, OR CARBON PAINTED ON THE CRT, AFTER REMOVING THE ANODE.

WARNING!!

AN ISOLATION TRANSFORMER SHOULD BE USED DURING ANY SERVICE TO AVOID POSSIBLE SHOCK HAZARD, BECAUSE OF LIVE CHASSIS.

THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE AC POWER LINE.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK ! ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESECOMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL TO SAFEOPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.

(ATTENTION)

APRES AVOIR DECONNECTE LE CAP DE L'ANODE, COURTCIRCUITER L'ANODE DU TUBE CATHODIQUE ET CELUI DE L'ANODE DU CAP AU CHASSIS METALLIQUE DE L'APPAREIL, OU AU COUCHE DE CARBONE PEINTE SUR LE TUBE CATHODIQUE OU AU BLINDAGE DU TUBE CATHODIQUE.

ATTENTION!!

AFIN D'EVITER TOUT RISQUE DELECTROCUTION PROVENANT D'UN CHÁSSIS SOUS TENSION, UN TRANSFORMATEUR D'ISOLEMENT DOIT ETRE UTILISÉ LORS DE TOUT DEPANNAGE.

LE CHÁSSIS DE CE RECEPTEUR EST DIRECTEMENT RACCORDÉ Á L'ALIMENTATION SECTEUR.

ATTENTION AUX COMPOSANTS RELATIFS ÁLA SÉCURITÉ!!

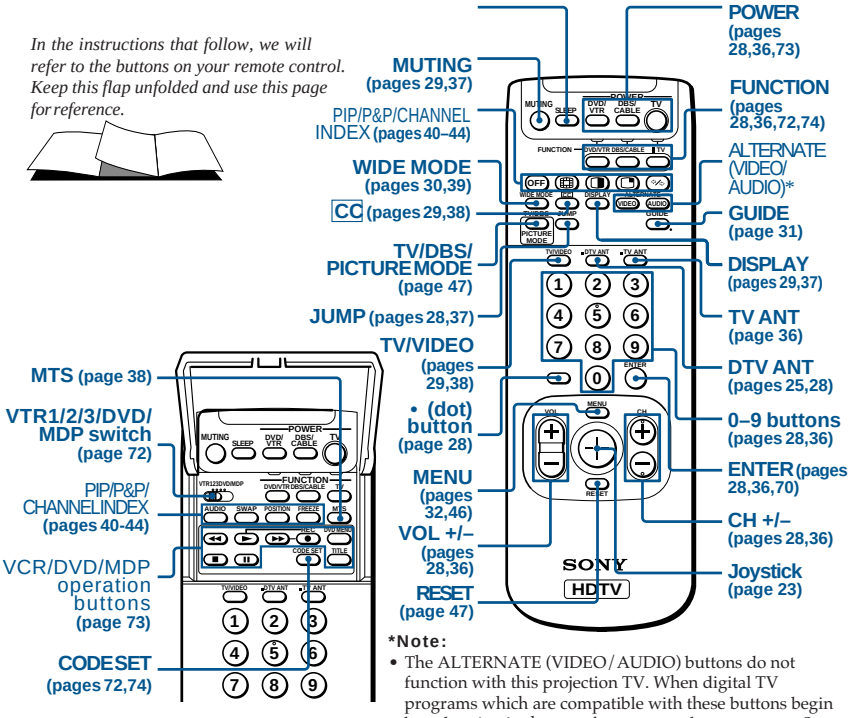
LES COMPOSANTS IDENTIFIÉS PAR UNE TRAME ET PAR UNE MAPQUE ! SUR LES SCHÉMAS DE PRINCIPE, LES VUES EXPLOSÉES ET LES LISTES DE PIECES CONT D'UNEIMPORTANCE CRITIQUE POUR LA SÉCURITÉ DU FONCTIONNEMENT. NE LES REMPLACER QUE PAR DES COMPOSANTS SONY DONT LE NUMÉRO DE PIÉCE EST INDIQUÉ DANS LE PRÉSENT MANUEL OU DANS DES SUPPLÉMENTS PUBLIÉS PAR SONY. LES RÉGLAGES DE CIRCUIT DONT L'IMPORTANCE EST CRITIQUE POUR LA SÉCURITÉ DU FONCTIONNEMENT SONT IDENTIFIES DANS LE PRÉSENT MANUEL. SUIVRE CES PROCÉDURES LORS DE CHAQUE REMPLACEMENT DE COMPOSANTS CRITIQUES, OU LORSQU'UN MAUVAIS FONCTIONNEMENT EST SUSPECTÉ.

SECTION 1
GENERAL

The operating instructions mentioned here are partial abstracts from the Operating Instructions Manual. The page numbers of the Operating Instruction Manual remain as in the manual. (Part no : 3-864-093-11)

Remote Control

In the instructions that follow, we will refer to the buttons on your remote control. Keep this flap unfolded and use this page for reference.



***Note:**

- The ALTERNATE (VIDEO/AUDIO) buttons do not function with this projection TV. When digital TV programs which are compatible with these buttons begin broadcasting in the near future, consult your nearest Sony dealer or Sony Direct Response Center.

Getting to know the buttons on the remote control

Names of the buttons on the remote control are presented in different colors to represent the available functions.

Button color

Transparent .... Press to select the component you want to control; e.g. VTR (VCR)/MDP/DVD Player, DBS (Direct Broadcast Satellite)/CABLE, or projection TV.

Green ..... Buttons relevant to power operations, like turning the projection TV, DBS/CABLE, or VTR (VCR)/MDP/DVD Player on or off

Label color

White ..... TV/VTR (VCR)/MDP/DVD Player/DBS (Direct Broadcast Satellite)/CABLE operation buttons

Yellow ..... PIP, P&P, and CHANNEL INDEX operation buttons

Blue ..... DBS operation buttons

Pink ..... DVD Player operation buttons

For a detailed explanation of most buttons, see "Watching Digital TV" on page 28, or "Watching Conventional TV" on page 36.

Installing and Connecting the Projection TV

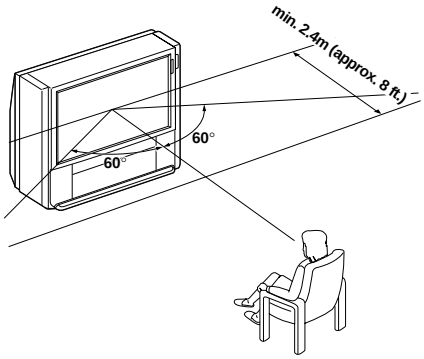
Carrying Your Projection TV

Carrying the projection TV requires four or more people.

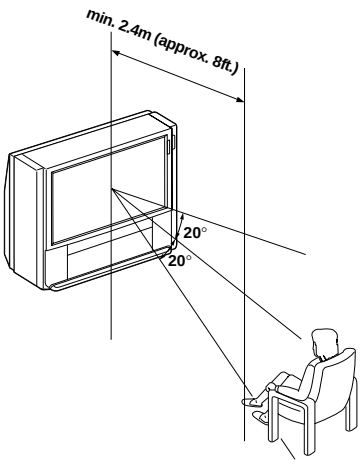
The projection TV has been equipped with casters for easy movement on a hard surface. Please move your projection TV using the casters.

Installing the Projection TV

Recommended viewing area (Horizontal)



Recommended viewing area (Vertical)

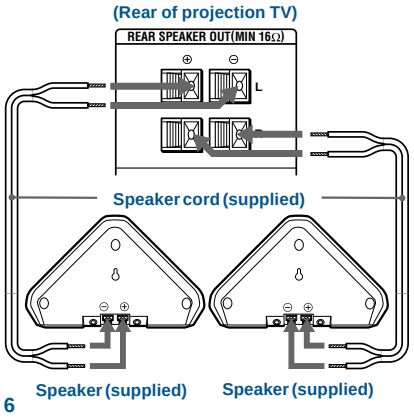


Mounting the Supplied Rear Speakers

For enhanced surround effect, connect the supplied rear speakers to your projection TV.

Connecting the rear speakers

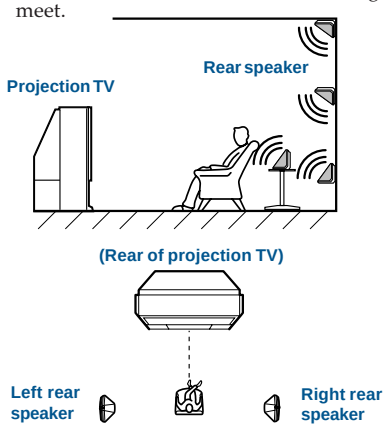
Using the supplied speaker cords, connect REAR SPEAKER OUT L on your projection TV to the speaker terminal on one rear speaker, and connect REAR SPEAKER OUT R to the terminal on the other one.



Installation

For optimum surround effect, mount the rear speakers in the following places (as shown in the illustration):

- on a wall, a little higher or lower than the listener's ears.
- on a table, a little lower than the listener's ears.
- at the corner where the wall and ceiling meet.



Note:

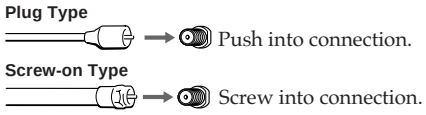
- Match the colors of the speaker cords and the terminals. If the colors are reversed, sound will be distorted.

Connector Types

You may find it necessary to use some of the following connector types during set up.

Coaxial cable

Standard TV cable and antenna cable



S Video cable

High quality video cable for enhanced picture quality

Audio/Video cable

Video - Yellow
Audio (Left) - White
Audio (Right) - Red

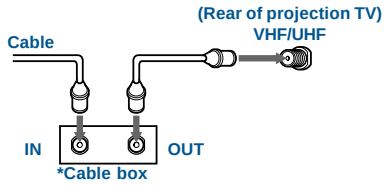
Some DVD Players are equipped with the following three video connectors.

Y - Green
P_B (C_B, C_b or B–Y) - Blue
P_R (C_R, C_r or R–Y) - Red

Installing and Connecting the Projection TV (continued)

Connecting a cable box

Some pay cable TV systems use scrambled or encoded signals that require a cable box* to view all channels.

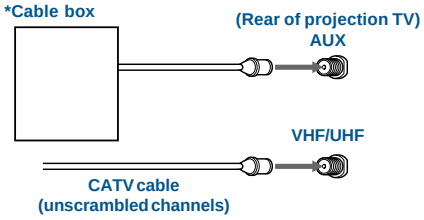


Note:

- If you will be controlling all channel selection through your cable box, you should consider using the CHANNEL FIX feature. (see "CHANNEL FIX" on page 56)

Cable box and cable

Some pay cable TV systems use scrambled or encoded signals requiring a cable box* only for certain channels (e.g. HBO, SHOWTIME, etc.)



For this set up, you can switch between scrambled channels (through your cable box), and normal (CATV) channels by pressing TV ANT on your remote control.

Notes:

- You may be able to program your Sony remote control to operate your cable box. (see "Operating a Cable Box or DBS Receiver" on page 74)
- During PIP, P&P, CHANNEL INDEX or FAVORITE CHANNEL viewing, the AUX input can only be viewed in the main picture.
- If you are connecting a cable box through the AUX input and would like to switch between the AUX and normal (CATV) input, you should consider using CHANNEL FIX.
(see "CHANNEL FIX" on page 56)

Disconnect all power sources before making any connections.

Connecting an antenna/cable TV system to a VCR

1 Attach the coaxial cable from the roof antenna to VHF/UHF (DIGITAL) on the TV's lower panel.

2 Attach the coaxial cable from the incoming cable connection or antenna to IN on the VCR.

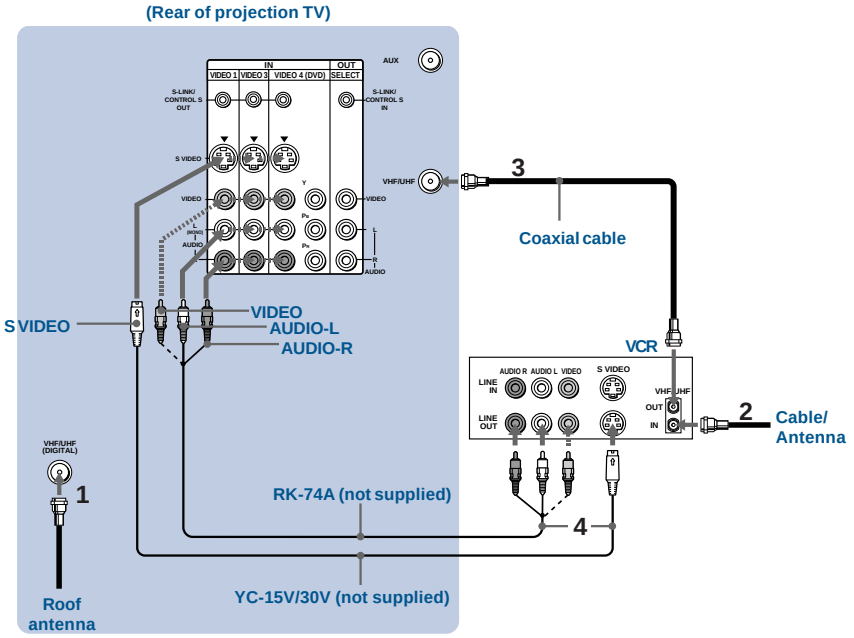
3 Using a coaxial cable, connect OUT on the VCR to VHF/UHF on the TV's upper panel.

4 Using AUDIO and S VIDEO* cables, connect AUDIO and S VIDEO OUT on the VCR to AUDIO and S VIDEO IN on the TV's upper panel (White-AUDIO Left, Red-AUDIO Right).

* If your VCR is not equipped with S VIDEO, use a VIDEO cable (yellow) instead of the S VIDEO cable.

Note:

- If you are connecting a monaural VCR, connect only the single audio output to the left (MONO) input on the projection TV.



Installing and Connecting the Projection TV (continued)

Disconnect all power sources before making any connections.

Connecting a VCR and projection TV to a cable box

1 Attach the coaxial cable from the roof antenna to VHF/UHF (DIGITAL) on the TV's lower panel.

2 Connect the single (input) jack of the splitter to the incoming cable connection, and connect the other two (output) jacks (using the coaxial cable) to IN on the cable box and VHF/UHF on the TV's upper panel.

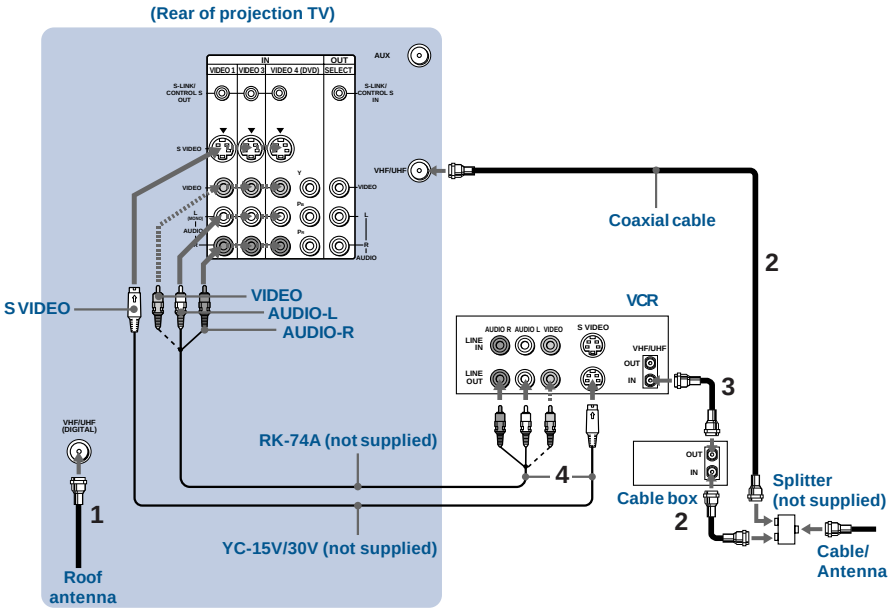
3 Using a coaxial cable, connect OUT on the cable box to IN on the VCR.

4 Using AUDIO and S VIDEO* cables, connect AUDIO and S VIDEO OUT on the VCR to AUDIO and S VIDEO IN on the TV's upper panel (White-AUDIO Left, Red-AUDIO Right).

* If your VCR is not equipped with S VIDEO, use a VIDEO cable (yellow) instead of the S VIDEO cable.

Note:

- To view scrambled channels through the cable box, select the video input which the cable box is connected to by pressing TV/VIDEO.



Disconnect all power sources before making any connections.

Connecting a DBS (Direct Broadcast Satellite) receiver

1 Attach the coaxial cable from the roof antenna to VHF/UHF (DIGITAL) on the TV's lower panel.

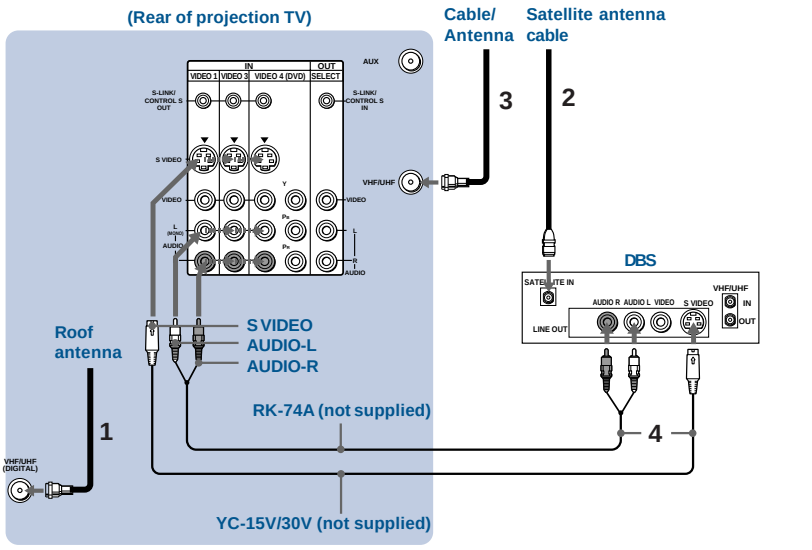
2 Connect the cable from the satellite antenna to the DBS receiver.

3 Attach the coaxial cable from the incoming cable connection or antenna to VHF/UHF on the TV's upper panel.

4 Using AUDIO and S VIDEO cables, connect AUDIO and S VIDEO OUT on the DBS receiver to AUDIO and S VIDEO IN on the TV's upper panel (White-AUDIO Left, Red-AUDIO Right).

Note:

- To view input from the DBS, select the video input which the DBS receiver is connected to by pressing TV/VIDEO on the remote control.



Installing and Connecting the Projection TV (continued)

Disconnect all power sources before making any connections.

Connecting a DBS (Direct Broadcast Satellite) receiver and a VCR

1-2 Perform as described on page 11.

3 Attach the coaxial cable from the incoming cable connection or antenna to IN on the VCR.

4 Using a coaxial cable, connect OUT on the VCR to VHF/UHF on the TV's upper panel.

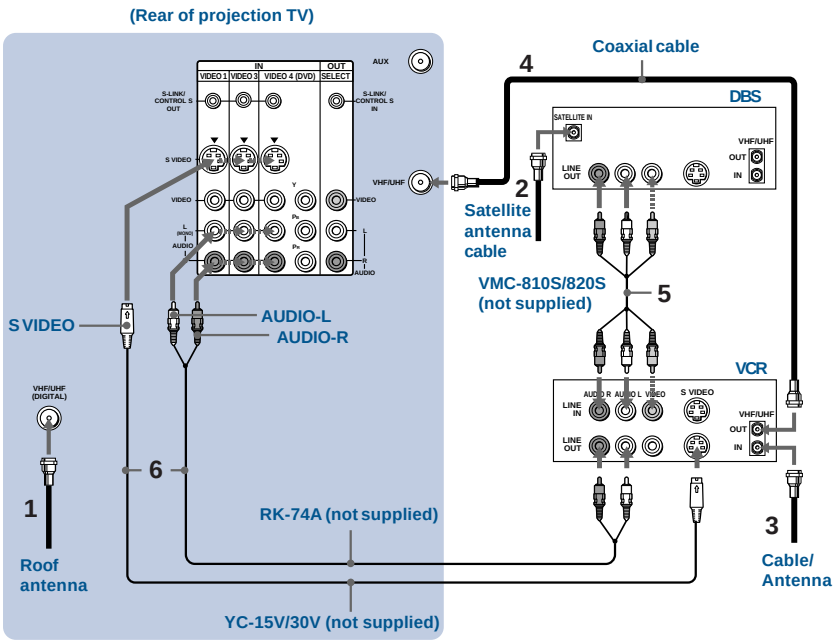
5 Using AUDIO and S VIDEO cables, connect AUDIO and S VIDEO OUT on the DBS receiver to AUDIO and S VIDEO IN on the VCR.

6 Using AUDIO and S VIDEO* cables, connect AUDIO and S VIDEO OUT on the VCR to AUDIO and S VIDEO IN on the TV's upper panel (White-AUDIO Left, Red-AUDIO Right).

* If your VCR is not equipped with S VIDEO, use a VIDEO cable (yellow) instead of the S VIDEO cable.

Note:

- To view input from the DBS or VCR, select the video input which your DBS receiver or VCR is connected to by pressing TV/VIDEO on the remote control.



Connecting a camcorder

Use this connection to view a picture directly from your camcorder.

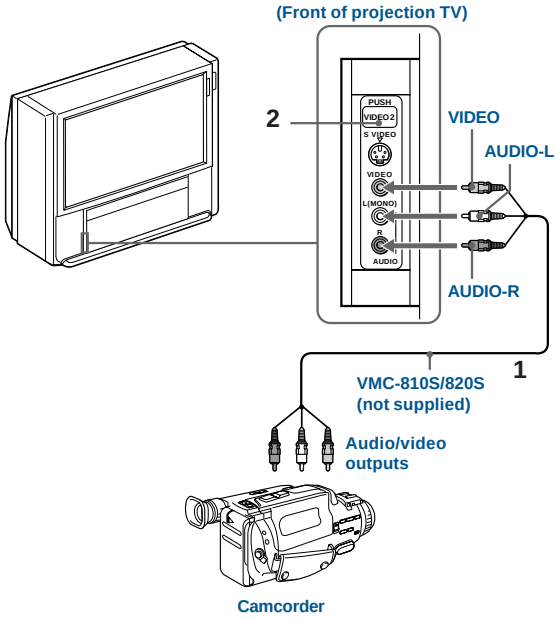
1 Using an AUDIO/VIDEO cable, connect AUDIO and VIDEO OUT on the camcorder to AUDIO and VIDEO IN on the lower left side on the front of the projection TV (Yellow-VIDEO, White-AUDIO Left, Red-AUDIO Right).

2 Press VIDEO 2 to select the video inputs from a camcorder.

Notes:

- If you are connecting a monaural camcorder, connect only the single audio output to the left (MONO) input on the projection TV.
- If you have an S Video equipped camcorder, you can use an S Video connection.

Disconnect all power sources before making any connections.



Installing and Connecting the Projection TV (continued)

Connecting two VCRs for tape editing

SELECT OUT gives you the ability to use a second VCR to record a program being played by the primary VCR or to perform tape editing and dubbing.

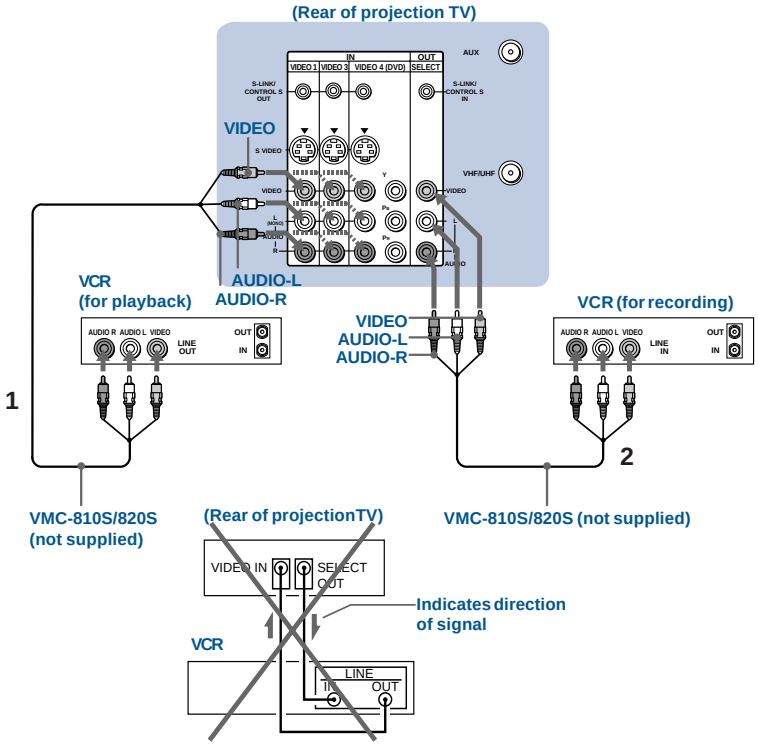
1 Connect the VCR intended for playback using the connection instructions on page 9 of this manual.

2 Using an AUDIO/VIDEO cable, connect AUDIO and VIDEO IN on the VCR intended for recording to AUDIO and VIDEO OUT of SELECT OUT on the TV's upper panel.

Notes:

- Do not change the input signal while editing through SELECT OUT.
- When connecting a single VCR to the projection TV: if VCR LINE OUT is connected to VIDEO IN on the TV's upper panel, ***do not*** connect the SELECT OUT on the TV's upper panel to the VCR LINE INPUT (see right). Doing so will cause program interference and other viewing problems.
- You can select the output signal from SELECT OUT from the SET UP menu. (see "SELECT OUT" on page 60)

Disconnect all power sources before making any connections.



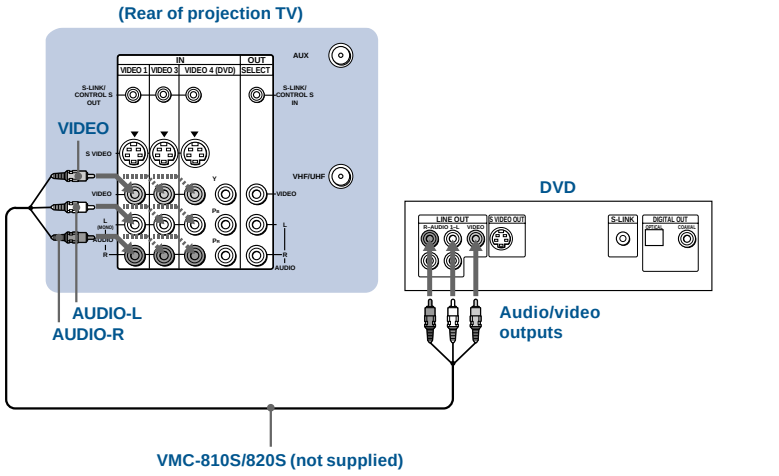
Connecting a DVD Player without component video output connectors

Using an AUDIO/VIDEO cable, connect AUDIO and VIDEO IN on the TV's upper panel to LINE OUT on the DVD Player (White-AUDIO Left, Red-AUDIO Right).

Note:

- Since the high quality pictures on a DVD disc contain a lot of information, picture noise may appear. In this case, adjust NR in the VIDEO menu. (see "NR" on page 48)

Disconnect all power sources before making any connections.



Connect the DVD Player directly to the projection TV. Connecting the DVD Player through other video equipment will cause unwanted picture noise.

Installing and Connecting the Projection TV (continued)

Connecting a DVD Player with component video output connectors

1. Using an AUDIO cable, connect AUDIO R and L of LINE OUT on the DVD Player to AUDIO R and L of VIDEO 4 IN on the TV's upper panel (White-AUDIO Left, Red AUDIO Right).
2. Using three yellow VIDEO cables, connect Y, P_B, and P_R of the COMPONENT VIDEO OUT on the DVD Player to Y, P_B, and P_R of VIDEO 4 IN on the TV's upper panel.

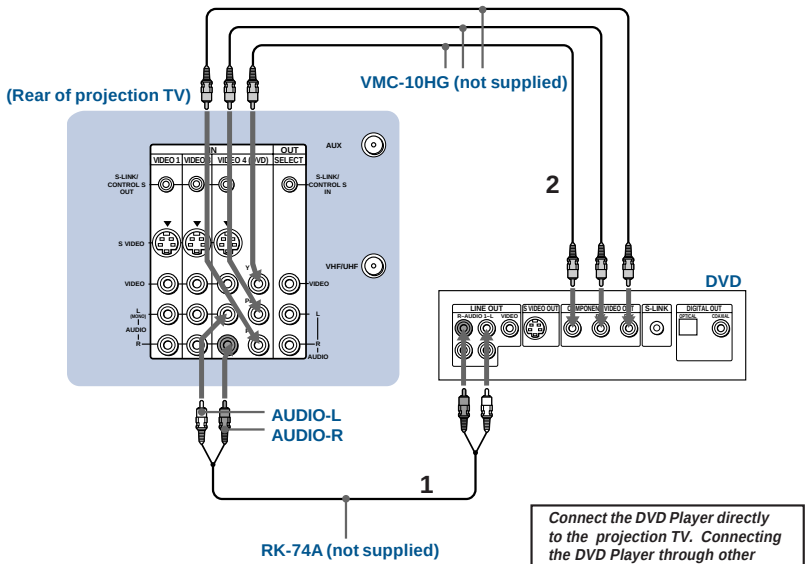
Notes:

- Some DVD Player terminals may be labeled differently. If so, connect as follows:

Connect	To
Y (green)	Y
P_B (blue)	C_B, C_b or B-Y
P_R (red)	C_R, C_r or R-Y

- Since the high quality pictures on a DVD disc contain a lot of information, picture noise may appear. In this case, adjust NR in the VIDEO menu. (see "NR" on page 48)

Disconnect all power sources before making any connections.



Connect the DVD Player directly to the projection TV. Connecting the DVD Player through other video equipment will cause unwanted picture noise.

Disconnect all power sources before making any connections.

Connecting an AV receiver

For greater control of all audio and video equipment, connect an AV receiver.

1-3 Perform as described on page 9.

4 Using a VIDEO cable, connect VIDEO 1 IN on the TV's upper panel to MONITOR OUT on the AV receiver.

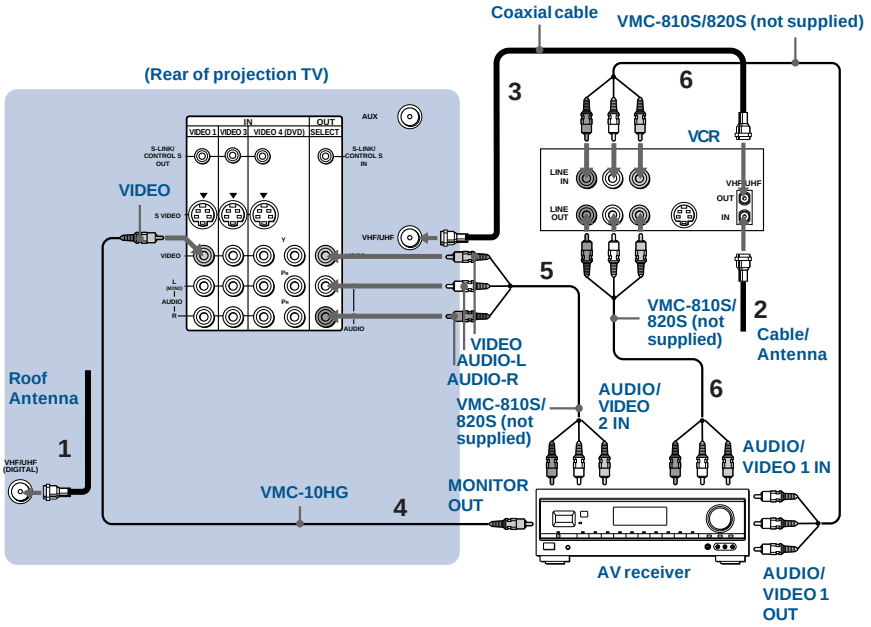
5 Using an AUDIO/VIDEO cable, connect SELECT OUT on the TV's upper panel to VIDEO 2 IN on the AV receiver.

6 Using an AUDIO/VIDEO cable, connect the video equipment to the AV receiver.

7 Use the SET UP menu to set SELECT OUT to TV OUT. (see "SELECT OUT" on page 60)

Note:

- You may want to use CHANNEL FIX to fix your TV's input to the AV receiver (VIDEO 1). (see "CHANNEL FIX" on page 56)



Installing and Connecting the Projection TV (continued)

Disconnect all power sources before making any connections.

Connecting an audio system

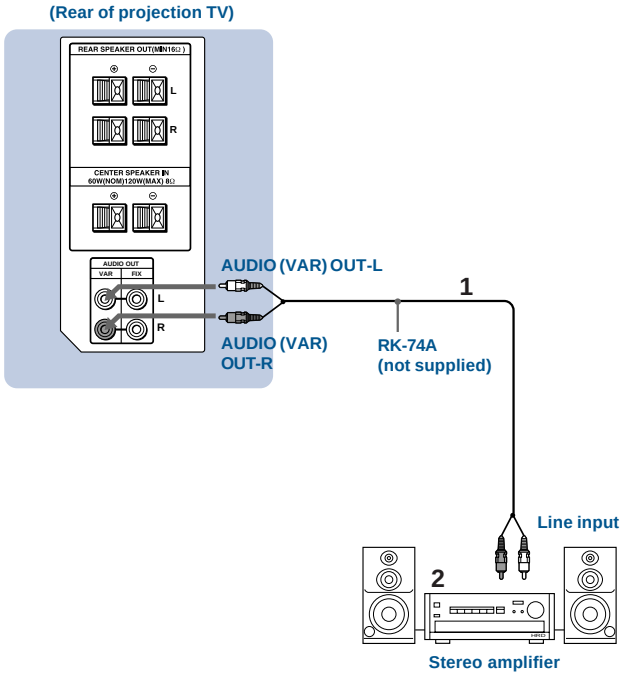
For more dynamic sound, connect an audio system to the projection TV.

1 Using an AUDIO cable, connect AUDIO (VAR) OUT on the TV's upper panel to one of the unused Line inputs (e.g. Tape-2, AUX1, etc.) on the stereo (White-AUDIO Left, Red-AUDIO Right).

2 Set the stereo to the chosen Line input and use the AUDIO menu to switch the TV's speakers off. (see "SPEAKER" on page 49)

Note:

- You can adjust VOLUME, BASS, TREBLE and BALANCE through the projection TV on AUDIO (VAR) OUT only.



Connecting an amplifier that supports Dolby Pro Logic/Dolby Digital decoder

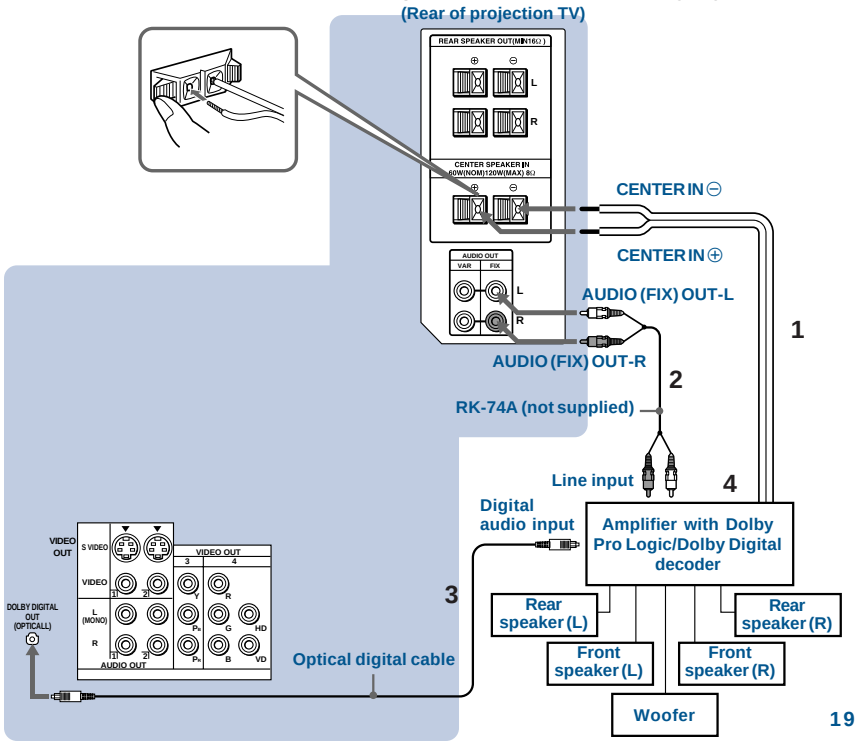
If you use an amplifier with a Dolby Pro Logic/Dolby Digital decoder instead of the projection TV's audio system, you can still use the projection TV's center speaker.

1. Using the speaker cords (supplied with the amplifier), connect the speaker terminals on the amplifier to CENTER SPEAKER IN +/– on the TV's upper panel.
2. Using an AUDIO cable, connect AUDIO (FIX) OUT on the TV's upper panel to one of the unused Line inputs (e.g. Tape-2, AUX1, etc.) on the amplifier (White-AUDIO Left, red-AUDIO Right).
3. If the amplifier is equipped with a digital audio input, connect DOLBY DIGITAL OUT (OPTICAL) on the TV's lower panel to the digital audio input on the amplifier using the optical digital cable.
4. Set the amplifier to the chosen Line input and use the AUDIO menu to set "SPEAKER" to "CENTER IN" on the projection TV. (see "SPEAKER" on page 49)

Note:

- The Dolby Pro Logic/Dolby Digital decoder's digital audio input jacks are sometimes labeled AC-3 or DCN.

Disconnect all power sources before making any connections.



Installing and Connecting the Projection TV (continued)

Using the S-Link/CONTROL S Function

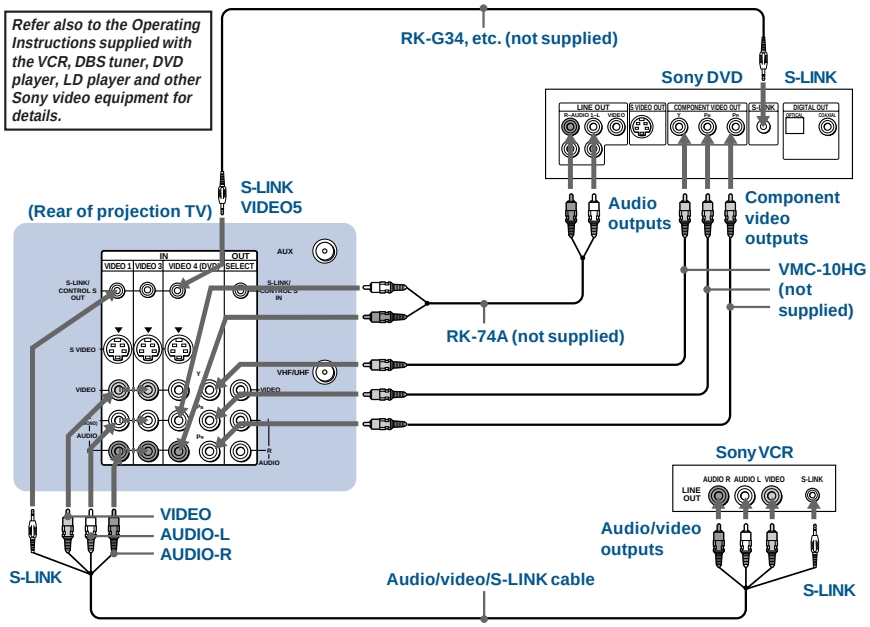
S-Link is a Sony innovation designed to make the Sony components work together. It allows you to automatically switch the projection TV's input mode to video when you press the play button on the Sony S-Link VCR.

Using the S-Link function without a Sony AV receiver

1. Connect the Sony VCR (DVD). (see "Connecting an antenna/cable TV system to a VCR" on page 9 or "Connecting a DVD Player with component video output connectors" on page 16)
2. Using an S-LINK cable, connect the S-LINK jacks on the VCR (DVD) and the TV's upper panel. Ensure that both ends are seated firmly and that the projection TV's S-LINK jack is in the same row as the AUDIO/VIDEO cable extending from the Sony VCR (DVD).

Disconnect all power sources before making any connections.

Refer also to the Operating Instructions supplied with the VCR, DBS tuner, DVD player, LD player and other Sony video equipment for details.



Using the S-Link function with a Sony AV receiver

1 Using a VIDEO cable, connect VIDEO 1 IN on the TV's upper panel to MONITOR OUT on the Sony AV receiver.

2 Using an AUDIO/VIDEO cable, connect SELECT OUT on the TV's upper panel to TV AUDIO and VIDEO IN on the AV receiver.

3 Using an S-LINK cable, connect S-LINK on the VIDEO 1 IN panel on the TV's upper panel and S-LINK on MONITOR OUT on the AV receiver.

4 Using an S-LINK cable, connect S-LINK on the SELECT OUT panel on the TV's upper panel to S-LINK on TV IN on the AV receiver.

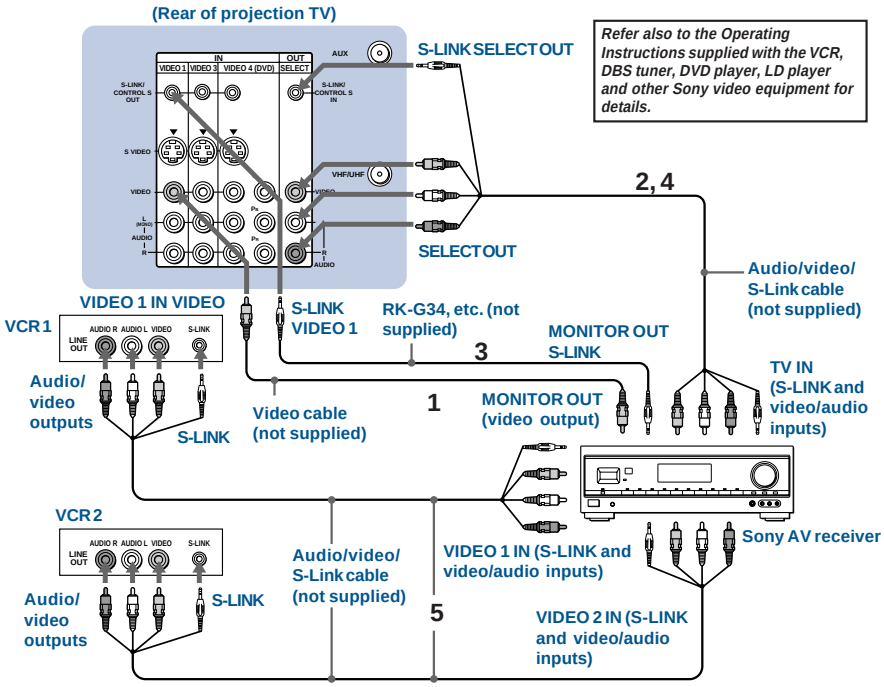
5 Using AUDIO/VIDEO and S-LINK cables, connect the Sony video equipment to the AV receiver.

6 Use the AUDIO menu to set SPEAKER to ALL OFF or CENTER IN. (see "SPEAKER" on page 49)

7 Use the SET UP menu to set SELECT OUT to TV OUT. (see "SELECT OUT" on page 60)

8 Press CH (CHANNEL) +/– to activate the S-Link function.

Disconnect all power sources before making any connections.


(Rear of projection TV)
S-LINK SELECT OUT
Refer also to the Operating Instructions supplied with the VCR, DBS tuner, DVD player, LD player and other Sony video equipment for details.
2, 4
SELECT OUT
Audio/video/ S-Link cable (not supplied)
VIDEO 1 IN VIDEO
VCR 1
S-LINK VIDEO 1
RK-G34, etc. (not supplied)
3
MONITOR OUT S-LINK
TV IN (S-LINK and video/audio inputs)
Audio/ video outputs
S-LINK
Video cable (not supplied)
1
MONITOR OUT (video output)
VCR 2
Audio/video/ S-Link cable (not supplied)
VIDEO 1 IN (S-LINK and video/audio inputs)
Sony AV receiver
Audio/ video outputs
S-LINK
5
VIDEO 2 IN (S-LINK and video/audio inputs)

Installing and Connecting the Projection TV (continued)

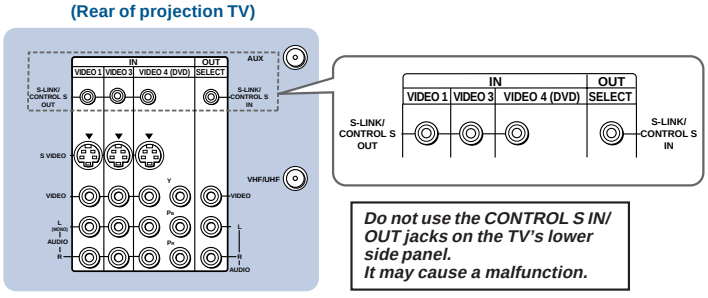
Disconnect all power sources before making any connections.

Using the CONTROL S feature

CONTROL S allows you to control the projection TV and other Sony equipment with one remote control.

To control other Sony equipment with the projection TV's remote control, connect the CONTROL S IN jack of the equipment to the CONTROL S OUT jack on the TV's upper panel with the CONTROL S cable.

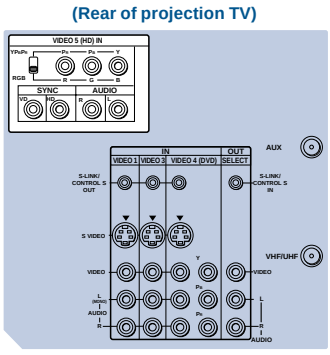
To control the projection TV with a remote control for another Sony product, connect the CONTROL S OUT jack of the equipment to the CONTROL S IN jack on the TV's upper panel with the CONTROL S cable.



About the VIDEO 5 (HD) IN jacks

The VIDEO 5 (HD) IN jacks on the TV's upper panel are designed to connect to the HDTV output jacks of the equipment which will accept the various HDTV formats (up to 1080i) scheduled to broadcast in the near future. The projection TV will be capable of connecting to a digital cable box TV decoder, HDTV digital satellite system (DSS) decoder, etc.

Before operating, set the YPBPR/RGB select switch to YPBPR or RGB depending on the HDTV equipment which is to be connected. For details on using the YPBPR/RGB select switch and the SYNC jacks, refer to the instruction manual supplied with the HDTV equipment.



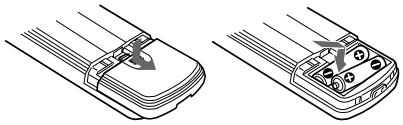
Note:

- The VIDEO 5 (HD) IN jacks are not compatible with a computer's 5BNC (R/G/B/HD/VD) video output connectors. Do not connect a computer to the VIDEO 5 (HD) IN jacks.

Using the Remote Control

Inserting the batteries

Insert two size AA (R6) batteries (supplied) by matching the + and – on the batteries to the diagram inside the remote control's battery compartment.

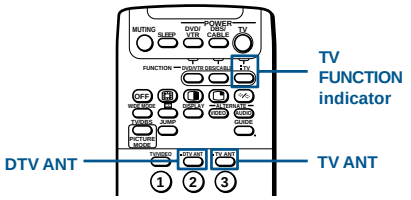


Notes:

- Remove the batteries to avoid damage from possible battery leakage whenever you anticipate that the remote control will not be used for an extended period.
- Handle the remote control with care. Avoid dropping it, getting it wet, or placing it in direct sunlight, near a heater or where the humidity is high.
- Your remote control can be programmed to operate most video equipment. (see "Operating Video Equipment" on page 72)

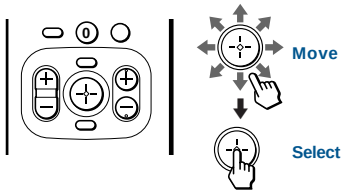
Selecting a digital TV or conventional TV program

The remote control functions both for digital TV and conventional TV features. You will need to switch the function of the remote control according to your choice for viewing either a digital TV or conventional TV program.



When you use the remote control for	Press	so that the TV FUNCTION indicator lights up in .....
The Digital TV	DTV ANT	green
The Conventional TV	TV ANT	red

Using the remote control joystick



The supplied remote control has a joystick which moves the on-screen selector in eight directions. In most cases, moving the joystick up, down, left or right will cause the selector to *move* in the selected direction.

In some cases, the selector may move in eight directions according to the function. Pressing down on the center of the joystick (⊕) will *activate* the selected item.

You may also move the joystick right to activate a selected item. (There are some exceptions to this option.)

Adjusting Sliders

When menu items present a slider (▬● or ●▬), move the joystick up, down, left or right to adjust the setting.

On Line Help/Instructions

Several menu windows will provide prompts and instructions to assist you in navigating through the different functions.

Setting Up the Projection TV Automatically

The AUTO SET UP feature will allow you to set all receivable channels.

First, perform AUTO SET UP for conventional TV programs. You can also set the on-screen language.

After AUTO SET UP is completed for conventional TV programs, Auto Program will automatically run for digital TV programs. Later, verify the Language and Time Zone settings in your DTV Setup Menu. (for details, see pages 34 and 35)

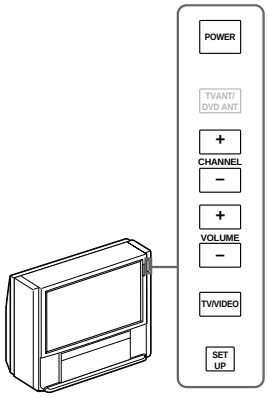
The AUTO SET UP feature does not apply for installations that use a cable box for all channel selection.

You can also set up the projection TV manually. (see "Channel Setup" on page 33 for digital TV channels, or "Using the CHANNEL SET UP Menu" on page 54 for conventional TV channels)

Notes:

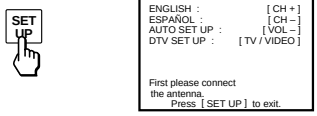
- Perform this function during the day, with the antenna and/or cable properly connected, to ensure that all available channels will be broadcasting and receivable.
- Before you perform AUTO SET UP for conventional TV programs, make sure that the input from ANT (not AUX) is selected by pressing TV ANT until "AUX" does not appear next to the channel number.
- When you perform AUTO SET UP for conventional TV programs, your CHANNEL FIX and ON/OFF TIMER settings will be erased.
- When you perform AUTO SET UP for conventional TV programs, the settings in the VIDEO menu except for "NR," "COLOR CORRECTION" and "DC TRANSMISSION" and all the settings in the AUDIO menu are reset to the factory settings.

First, perform AUTO SET UP for conventional TV programs by using the buttons on the upper right side panel on the front of the projection TV.



1 Press POWER to turn on the projection TV.

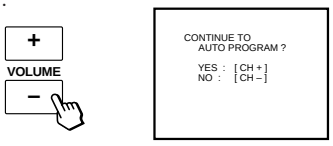
2 Press SET UP to display the AUTO SET UP screen for conventional TV programs.



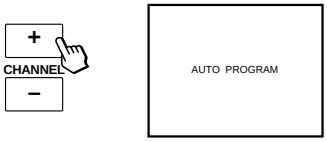
3 Press CHANNEL + to select English, CHANNEL – to select Spanish.

The screen will change to reflect your choice.

4 Press VOLUME – to select "AUTO SET UP."



5 Press CHANNEL + to preset conventional TV channels automatically.



"AUTO PROGRAM" appears and the projection TV starts scanning and presetting conventional TV channels automatically. While scanning, the received conventional TV channel will be displayed on the sub screen. When all the receivable channels are stored, the lowest conventional TV channel number will be displayed. If the projection TV receives cable TV channels, CABLE is set to ON automatically.

After AUTO SET UP for conventional TV programs has been completed, the Initial Setup screen for digital TV programs will appear.

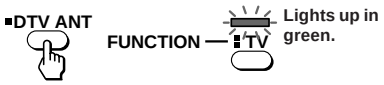
Welcome to DTV!
Before you can view DTV programs, you must run Auto Program.
Press ⊕ to continue.
Please check the Time Zone setting later.

Second, perform Auto Program for digital TV programs by using the buttons on the remote control.

6 Press DTV ANT on the remote control so that the TV FUNCTION indicator lights up in green momentarily.

The remote control functions for digital TV programs.

Auto Program for digital TV begins.



(continued)

Basic Set Up (continued)

7 Press ⊕ (press down on the center of the joystick) to start Auto Program for digital TV.

"Auto Program in Progress..." is displayed as the projection TV scans and presets available digital TV programs. When all the receivable channels are stored, the lowest digital channel number will be displayed.

To perform AUTO SET UP again

Press SET UP. Perform as described in steps 3–7 on pages 25 and 26. Press SET UP again to exit.

Adjusting the Convergence Automatically (AUTO FOCUS)

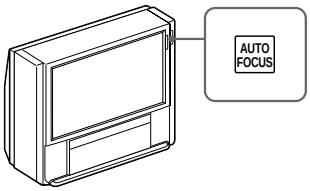
The projection tube image appears on the screen in three layers (red, green and blue). If they do not converge, the color is poor and the picture blurs.

Before you use your projection TV, be sure to adjust the convergence.

The AUTO FOCUS feature allows you to adjust the convergence automatically.

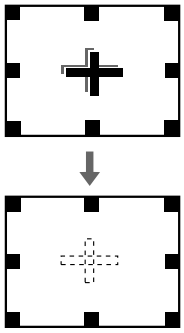
Tip

- *It is recommended to perform AUTO FOCUS about 30 minutes after the projection TV is first turned on.*



Press AUTO FOCUS.

The cross pattern appears and AUTO FOCUS begins to work. The adjustment is completed when the cross pattern becomes white.



Note:

- You cannot perform any other functions until AUTO FOCUS has completed its cycle.

Using Digital TV Features

Watching Digital TV

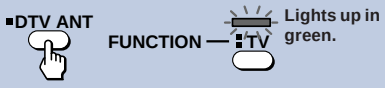
Many digital TV features can be accessed directly through the remote control. The following chart will explain the function of some buttons found on your remote control.

To use the remote control for digital TV programs

First, press DTV ANT on the remote control so that the TV FUNCTION indicator on the remote control lights up in green momentarily.

The remote control functions for digital TV programs.

At the same time the DTV indicator on the front of the projection TV lights up in green.



Make sure that the TV FUNCTION indicator lights up in green each time you press the buttons listed in the tables.

REFER TO THE ILLUSTRATION OF THE REMOTE CONTROL ON THE INSIDE FRONT COVER OF THIS MANUAL AS YOU REVIEW THIS CHART

Using the White Labeled Buttons for Projection TV Operations	
TV (FUNCTION)	Activates the remote control for use with the projection TV.
TV POWER	Turns the projection TV on and off. If a video input indication (e.g. VIDEO 1, VIDEO 2) appears on the screen, press TV/VIDEO until a channel number appears.
0 - 9, •, and ENTER	Use for direct digital channel selection. Digital channels are indicated by the use of a dot in the channel number. For example, to select subchannel 3 in main channel 10 (channel number 10.3), press 1, 0, • (dot), 3 and ENTER.
GUIDE	Press to display the Program Guide. (see "Using Program Guide to Select Subchannels" on page 31)
CH +/–	Press to scan through the channels (+ up or – down).
VOL +/–	Press to adjust the volume (+ up or – down).
JUMP	Press to alternate or *jump* back and forth between two digital channels. The projection TV will jump between the current channel and the last channel selected using the 0–9 and • (dot) buttons, CH+/– buttons or Program Guide.

(continued)

Using the White Labeled Buttons for Projection TV Operations	
WIDE MODE	Press to watch 4:3 normal broadcasts in wide screen mode (16:9 aspect ratio). (see “Using the Wide Screen Mode” on page 30)
MUTING	Press to mute the sound. “MUTING” will appear on the screen and will dim three seconds later. To restore sound, press again or press VOL +.
SLEEP	Press repeatedly until the projection TV displays the approximate time in minutes (30, 60 or 90) that you want the projection TV to remain on before shutting off automatically. Cancel by pressing until “SLEEP OFF” appears.
DISPLAY or CC	Each press scrolls through the following indications: →Channel number, name and logo (if set) and current time ↓ Closed caption ↓ Display off
TV/VIDEO	Press repeatedly to scroll through available video inputs: **TV, VIDEO 1, VIDEO 2, VIDEO 3, VIDEO 4 and VIDEO 5.**

REFER TO THE ILLUSTRATION OF THE REMOTE CONTROL ON THE INSIDE FRONT COVER OF THIS MANUAL AS YOU REVIEW THIS CHART

Tip

You can adjust the picture and sound qualities using the VIDEO (page 47) and AUDIO (page 49) menus even when you are watching a digital TV program. Before operating the menu, press TV (FUNCTION) so that the TV FUNCTION indicator lights up in red. After finishing the menu operation, press TV (FUNCTION) again to make the TV FUNCTION indicator light up in green.

Using Digital TV Features (continued)

Using the Wide Screen Mode

The wide screen mode feature lets you watch 4:3 normal broadcasts in wide screen mode (16:9 aspect ratio).

Press WIDE MODE on the remote control.

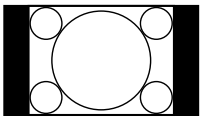
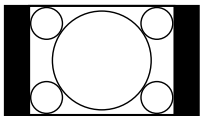
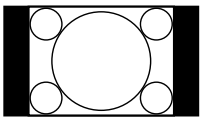
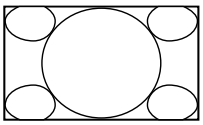
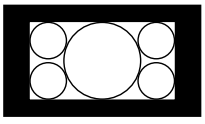
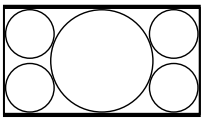
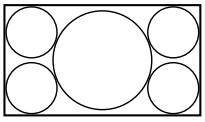
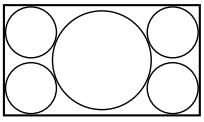
WIDE MODE

Each press scrolls through the following modes:

NORMAL→WIDE ZOOM→ZOOM→FULL

Notes:

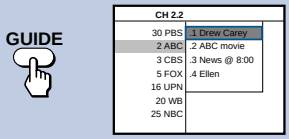
- The AUTO WIDE feature lets you select the most suitable mode automatically for a picture containing an aspect ratio signal. (see “AUTO WIDE” on page 53)
- For ZOOM and WIDE ZOOM modes you can adjust the vertical position of the picture. (see “V CENTER” on page 53)

To watch the original broadcasting screen sizes shown below	Press WIDE MODE to select the altered screen sizes shown below
DTV 4:3 aspect ratio picture 	**NORMAL** Select to return the 4:3 picture to normal mode. 
DTV 4:3 aspect ratio picture 	**WIDE ZOOM** Select to enlarge the 4:3 picture, while the upper and lower parts of the picture are condensed to fit the 16:9 screen. 
Letter box movie of a video tape or a DVD disc 	**ZOOM** Select to enlarge the 4:3 picture horizontally and vertically to an equal aspect ratio that fills the 16:9 screen. 
DTV 16:9 aspect ratio picture 	**FULL** No change (DTV 16:9 aspect ratio picture is always displayed in FULL mode.) 

Using the Program Guide to Select Subchannels

The Program Guide lets you select subchannels from an on-screen list. Subchannels are additional channels of programming that are broadcast simultaneously by a single network. For example, channel 2, a main channel, might include four subchannels (2.1, 2.2, 2.3 and 2.4) that are showing programs at the same time.

1 Press GUIDE.
If the projection TV is tuned to a DTV channel, the program guide appears. The currently selected subchannel is highlighted.

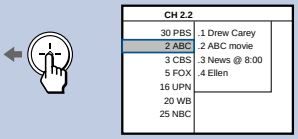


Channels that include subchannels include a dot, followed by the number of the subchannel, such as "2.1," etc.

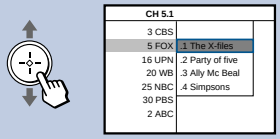
To check the channel number, press DISPLAY.

Program information in the program guide is provided by the broadcasters. As a result, the program guide may sometimes include only the channel number without a program title, station logo or description.

2 Move the joystick left to select the main channel list.



3 Move the joystick up or down to select the desired main channel number.
The tuning indicator appears. When the selected main channel is tuned in, all of the subchannels are listed. The first subchannel is highlighted and its program information appears at the top of the screen.



4 Move the joystick up or down to select the desired subchannel, and press ⊕.
The program guide will disappear.

To clear the program guide without changing channels

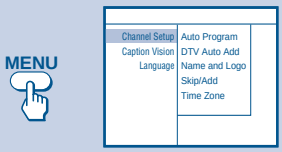
Press GUIDE.

Using Digital TV Features (continued)

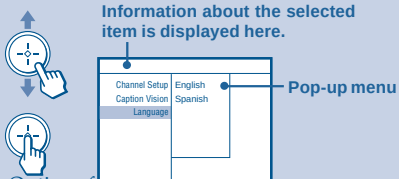
Learning Setup Menu Selection

Use the MENU button to access the setup menu and use the joystick to alter settings. Use the following example to learn how to modify settings.

1 Press the MENU button.
The setup menu appears.

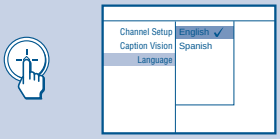


2 Move the joystick up or down to select the desired setup item.



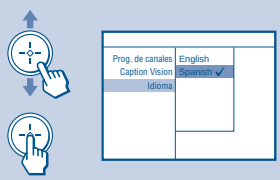
Options for your selection (pop-up menu on the right) will be displayed.

3 Press ⊕ (press down on the center of the joystick) to activate the selected item.
The currently selected option is highlighted and marked with a check mark (✓).



You may also move the joystick right to activate a selection.

4 Move the joystick up or down to select the desired option, and press ⊕.
The selected option is highlighted and marked with a check mark. The current selection is displayed at the top of the on-screen menu.



Some options may require further operations.
For details, see each menu option.

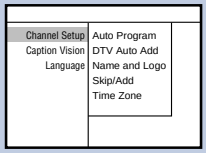
5 Once you have completed all menu settings, press MENU to exit the menu screens.

You may also move the joystick left to return to the previous screen.

To exit from the menus at any time

Press MENU.

Using the Setup Menu



For detailed information on using the remote control to modify menu settings, refer to "Learning Setup Menu Selection" on page 32.

Channel Setup
Basic channel and display options

Auto Program: Select to scan and preset digital channels automatically. Before "Auto Program" process, a dialog box pops up with the message "Are you sure you want to clear your existing channel list?" Move the joystick left or right to select OK, and press ⊕ to activate "Auto Program." A tuning indicator appears and the projection TV starts scanning and presetting digital channels automatically. When all the receivable channels are stored, the lowest channel is displayed and the tuning indicator disappears.

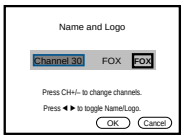
Note:

- If you currently have a list of programmed channels, or "Name and Logo" or "Skip/Add" setting, they will be erased when you perform "Auto Program."

DTV Auto Add: Select to preset additional digital channels as they become available without erasing original channels (after you use Auto Program). During the "DTV Auto Add" process, a tuning indicator appears and the projection TV starts scanning and adding new digital channels. When scanning is complete, the indicator disappears and the current channel re-appears.

Name and Logo: Select to add or change the station name and logo.
When selected, a dialog box pops up.

Dialog box



1 Press CH +/– to select the desired channel.

2 Move the joystick left or right to select the station name and the corresponding logo.

3 Move the joystick up or down—and then left or right—to select OK, and press ⊕.

To clear the dialog box without changing the name and logo for the current channel, move the joystick up or down—and then left or right—to select "Cancel," and press ⊕.

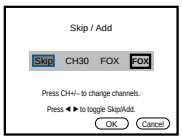
(continued)

Using Digital TV Features (continued)

Channel Setup
Basic channel and display options

Skip/Add: Select to erase or add channels from/to your channel list.
When selected, a dialog box pops up.

Dialog box



1 Press CH +/– to select the desired channel.

2 Move the joystick left or right to select **Skip** to erase a channel, or select **Add** to add a channel.

3 Move the joystick up or down—and then left or right—to select OK, and press ⊕.

To clear the dialog box without erasing/adding a channel, move the joystick up or down—and then left or right—to select "Cancel" and press ⊕.

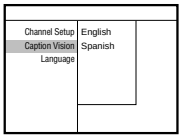
Time Zone: Digital channels include time signals based on the time zone. Select to choose a time zone for your area.
When selected, the time zone dialog box pops up.

Dialog box

1 Move the joystick up, down, left or right to choose your time zone.
A check mark will be given to your selection.

2 Move the joystick left or right to select OK, and press ⊕.

(continued)

Caption Vision *Television closed caption display*	Some programs are broadcast with Caption Vision (closed caption). To display closed caption **1** Select your language (**English** or **Spanish**) and then press ⊕ on the remote control. **2** Press DISPLAY or CC until the Caption Vision appears. 
Language *User's preferred language*	Select from available languages (**English** or **Spanish**) to display the DTV Setup menus in your language of choice.

Using Conventional TV Features

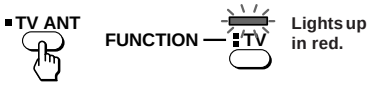
Watching Conventional TV

Many Conventional TV features can be accessed directly through the remote control. The following chart will explain the function of some buttons found on your remote control.

To use the remote control for conventional TV programs (VHF/ UHF and AUX inputs)

First, press TV ANT on the remote control so that the TV FUNCTION indicator on the remote control lights up in red momentarily.

The remote control functions for conventional TV programs.



Make sure that the TV FUNCTION indicator lights up in red each time you press the buttons listed in the tables.

REFER TO THE ILLUSTRATION OF THE REMOTE CONTROL ON THE INSIDE FRONT COVER OF THIS MANUAL AS YOU REVIEW THIS CHART

Using the White Labeled Buttons for Projection TV Operations	
TV ANT *(AUX input)*	Press to change between the VHF/UHF input and the AUX input. (for detailed connection information, see "Cable and antenna" on page 7 or "Cable box and cable" on page 8)
TV (FUNCTION)	Activates the remote control for use with the projection TV.
TV POWER	Turns the projection TV on and off. If a video input indication (e.g., VIDEO 1, VIDEO 2) appears on the screen, press TV/VIDEO until a channel number appears.
0 - 9 and ENTER	Use for direct conventional TV channel selection. Press 0-9 to select a channel (for example, to select channel 10, press 1 and 0). The channel will change after 2 seconds, or you can press ENTER for immediate selection.
CH +/–	Press to scan through the channels (+ up or – down).
VOL +/–	Press to adjust the volume (+ up or – down).

(continued)

Using the White Labeled Buttons for Projection TV Operations	
JUMP	Press to alternate or *jump* back and forth between two conventional TV channels. The projection TV will jump between the current channel and the last channel selected using the 0-9 buttons.
WIDE MODE *(Wide screen mode)*	Press to watch 4:3 normal broadcasts in wide screen mode (16:9 aspect ratio). (see “Using the Wide Screen Mode” on page 39)
MUTING	Press to mute the sound. “MUTING” will appear on the screen and will dim three seconds later. To restore sound, press again or press VOL +.
FREEZE *(yellow labeled button)*	This is useful when you need to copy down information that appears on the TV’s screen. Press to *freeze* the picture. Press again or press (OFF) to cancel. If you select TWIN as a FREEZE MODE in the SET UP menu, you can freeze the desired scene and display it on the left while viewing the normal picture on the right. (see “FREEZE MODE” on page 63) **Note:** If the frozen picture mode is not canceled for more than an hour, the normal picture is resumed automatically.
SLEEP	Press repeatedly until the projection TV displays the approximate time in minutes (30, 60, or 90) that you want the projection TV to remain on before shutting off automatically. Cancel by pressing until “SLEEP OFF” appears.
DISPLAY	Press to display the channel number, current time, channel caption (if set), and MTS mode (if SAP is selected). The SAP indication disappears and the other indications dim three seconds later. To turn the display off, press DISPLAY again.

(continued)

PICTURE MODE

Press PICTURE MODE repeatedly to directly choose one of five different video modes that best suits the program you are watching.
You can also adjust the picture quality (such as BRIGHTNESS, COLOR, etc.) for each mode to suit your taste.
First select each MODE individually before adjusting the picture quality.
VIVID: Select for enhanced picture contrast and sharpness.
STANDARD: Select to display a standard picture for normal viewing environments.
MOVIE: Select to display a finely detailed picture for low light environments.
GAME: Select to display graphics such as a video game.
PRO (Professional): Select to display a picture with minimum enhancements.

For details, see “MODE” on page 47.

Using Conventional TV Features (continued)

Using the White Labeled Buttons for Projection TV Operations	
CC	Press repeatedly to scroll through available displays: **XDS (Extended Data Service)** Displays a network name, program name, program type, program length, program description, call letters and time of the show if the broadcaster offers this service. **Caption Vision** Displayed on the screen if the broadcaster offers this service. (see “CAPTION VISION” on page 59) **No display** “OFF” appears and the display is canceled.
TV/VIDEO	Press repeatedly to scroll through available video inputs: **TV, VIDEO 1, VIDEO 2, VIDEO 3, VIDEO 4 and VIDEO 5** If you select SKIP as a VIDEO LABEL in the SET UP menu, your projection TV will skip the video input you selected. (see “VIDEO LABEL” on page 61)
MTS	Press to scroll through the Multi-channel TV Sound (MTS) options. (see “MTS” on page 49)

REFER TO THE ILLUSTRATION OF THE REMOTE CONTROL ON THE INSIDE FRONT COVER OF THIS MANUAL AS YOU REVIEW THIS CHART

Using the Wide Screen Mode

The wide screen mode feature lets you watch 4:3 normal broadcasts in wide screen mode (16:9 aspect ratio).

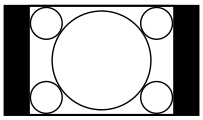
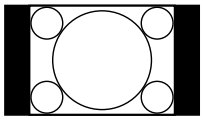
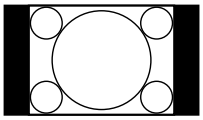
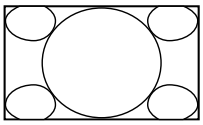
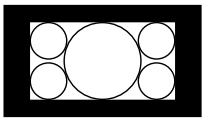
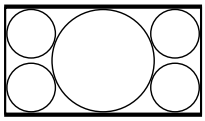
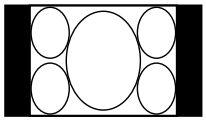
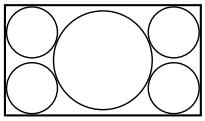
Press WIDE MODE on the remote control.

Each press scrolls through the following modes:

NORMAL → WIDE ZOOM → ZOOM → FULL

Notes:

- The AUTO WIDE feature lets you select the most suitable mode automatically for a picture containing an aspect ratio signal. (see "Using AUTO WIDE" on page 53)
- For ZOOM and WIDE ZOOM modes you can adjust the vertical position of the picture. (see "V CENTER" on page 53)

To watch the original broadcasting screen sizes shown below		Press WIDE MODE to select the altered screen sizes shown below	
Normal 4:3 aspect ratio picture		**NORMAL** Select to return the 4:3 picture to normal mode.	
Normal 4:3 aspect ratio picture		**WIDE ZOOM** Select to enlarge the 4:3 picture, while the upper and lower parts of the picture are condensed to fit the 16:9 screen.	
Letter box movie of a video tape or a DVD disc		**ZOOM** Select to enlarge the 4:3 picture horizontally and vertically to an equal aspect ratio that fills the 16:9 screen.	
4:3 squeezed video camera or DVD picture		**FULL** Select to enlarge the 4:3 picture horizontally only, to fill the 16:9 screen.	

Using Conventional TV Features (continued)

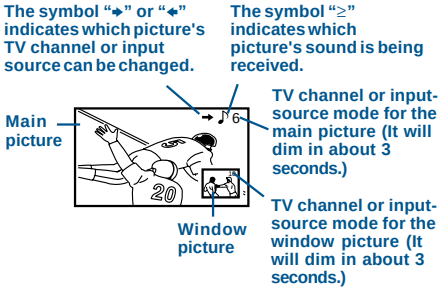
Watching Two Programs at One Time — PIP

The Picture-in-Picture (PIP) feature allows you to view two channels simultaneously, one in the full size "main" picture and one in a smaller "window" picture.

You can move the window picture to any location on the screen.

Note:

- The PIP feature is not available for the inputs from VIDEO 5 IN and for digital TV programs.


The symbol "➔" or "➔" indicates which picture's TV channel or input source can be changed.
The symbol "≥" indicates which picture's sound is being received.
Main picture
TV channel or input-source mode for the main picture (It will dim in about 3 seconds.)
TV channel or input-source mode for the window picture (It will dim in about 3 seconds.)
Window picture
6
20

Using the Yellow Labeled Buttons for PIP Operations	
	Press to display a window picture. Each time you press this button, the picture size will change (1/4 → 1/9 → 1/16). Press OFF to close the window picture.
POSITION	Press to change the location of the window picture (counterclockwise) around the main picture.
ACTIVE	Press to select either the main or window picture in order to change the TV channel or video source using the white labeled buttons below. The symbol "➔" (or "➔") will appear to indicate which picture's channel or input mode can be changed.
(white labeled button)	To change the location of the window picture, move the joystick in any direction and release it when the picture is in the desired location.
TV/VIDEO *(white labeled button)*	Press repeatedly to scroll through the available video inputs for the picture on which the symbol "➔" (or "➔") is displayed. (see "TV/VIDEO" on page 38)

(continued)

Tip

If you press RESET in PIP mode, the window picture will move to the bottom right (factory-preset location).

Using the Yellow Labeled Buttons for PIP Operations	
CH + / − (white labeled button) or 0 - 9 or JUMP and ENTER	Press to select the TV channel on which the symbol "➔" (or "➔") is displayed. (for details, see "Watching Conventional TV" on page 36)
TV ANT (white labeled button)	Press to change between the VHF/UHF input and the AUX input for the picture on which the symbol "➔" (or "➔") is displayed.
AUDIO	Press to alternate sound between the main picture and the window picture. The symbol " ♪ " will appear for a few seconds to indicate which picture's sound is being received.
FREEZE	This is useful when you need to copy down information that appears on the TV's screen. Press to freeze the main and window pictures. The symbols "➔" and " ♪ ," and the channel number disappear. Press again to resume PIP viewing. Press OFF to cancel and resume normal TV viewing.
SWAP	Press to switch the audio and video of the main picture and the window picture. Each time you press SWAP, the picture and sound of the two will be exchanged.
	Press to access CHANNEL INDEX for direct channel selection. (see "Using CHANNEL INDEX" on page 44)
OFF	Press to cancel the PIP function and return to normal viewing.

REFER TO THE ILLUSTRATION OF THE REMOTE CONTROL ON THE INSIDE FRONT COVER OF THIS MANUAL AS YOU REVIEW THIS CHART

Notes:

- If one of the pictures received through PIP is snowy, the entire screen may become unstable. In this case, erase the snowy channel. (see "CHANNEL SKIP/ADD" on page 54)
- You can change the wide screen mode of the main picture only. The mode is not available for the window picture.
- The 16:9 aspect ratio picture with ID-1 or S1 is always displayed in FULL mode, even when it is shown as the window picture.

Using Conventional TV Features (continued)

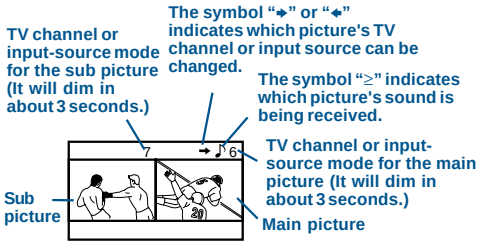
Watching Two Programs at One Time — P&P (Twin View™)

The Picture-and-Picture (P&P) feature allows you to view two channels simultaneously, both in a reduced size screen. The main picture will appear on the right.

You can change the size of both pictures to suit your personal preference.

Note:

- The P&P feature is not available for the inputs from VIDEO 5 IN and for digital TV programs.


TV channel or input-source mode for the sub picture (It will dim in about 3 seconds.)
The symbol "➔" or "➔" indicates which picture's TV channel or input source can be changed.
The symbol "≥" indicates which picture's sound is being received.
TV channel or input-source mode for the main picture (It will dim in about 3 seconds.)
Sub picture
Main picture

Tip

If you press RESET in P&P mode, the right and left pictures will be reset to the same size (factory-preset size.)

Using the Yellow Labeled Buttons for P&P Operations	
	Press to display right (main) and left pictures. Press OFF to close the window picture.
	Move the joystick right to zoom in on the right picture, and left to zoom in on the left picture. Release at the desired size. The other picture will be zoomed out simultaneously.
ACTIVE	Press to select either the right or left picture in order to change the TV channel or video source using the white labeled buttons below. The symbol "➔" (or "➔") will appear to indicate which picture's channel or input mode can be changed.
TV/VIDEO (white labeled button)	Press repeatedly to scroll through the available video inputs for the picture on which the symbol "➔" (or "➔") is displayed. (see "TV/VIDEO" on page 38)

(continued)

Using the Yellow Labeled Buttons for P&P Operations	
CH (+ / −) or 0 - 9 or JUMP and ENTER *(white labeled button)*	Press to select the TV channel on which the symbol "➔" (or "➔") is displayed. (for details, see "Watching Conventional TV" on page 36)
▪TV ANT *(white labeled button)*	Press to change between the VHF/UHF input and the AUX input for the picture on which the symbol "➔" (or "➔") is displayed.
AUDIO	Press to alternate sound between the right and left pictures. The symbol " ♪ " will appear for a few seconds to indicate which picture's sound is being received.
FREEZE	This is useful when you need to copy down information that appears on the TV's screen. Press to freeze both the right and left pictures. Press again to resume P&P viewing or press OFF to cancel and resume normal TV viewing.
SWAP	Press to switch the audio and video of the right and left pictures. Each time you press SWAP, the picture and sound of the two will be exchanged.
OFF	Press to cancel the P&P function and return to normal viewing.

REFER TO THE ILLUSTRATION OF THE REMOTE CONTROL ON THE INSIDE FRONT COVER OF THIS MANUAL AS YOU REVIEW THIS CHART

Notes:

- If one of the pictures received through P&P is snowy, the entire screen may become unstable. In this case, erase the snowy channel. (see "CHANNEL SKIP/ADD" on page 54)
- The right and left pictures (except for the 16:9 aspect ratio signals with ID-1 or S1) are always displayed in an aspect ratio of 4:3. The WIDE MODE button on the remote control does not function with the P&P mode.
- The 16:9 signals with ID-1 or S1 are always displayed in an aspect ratio of 16:9.

Using CHANNEL INDEX

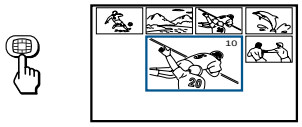
You can use the CHANNEL INDEX feature to display multiple channels and select one directly.
Channels used for CHANNEL INDEX will come directly from the TV's list of receivable channels (those set during AUTO PROGRAM or through the CHANNEL SET UP menu).

Note:

- The CHANNEL INDEX feature is not available for the inputs from VIDEO 5 IN and for digital TV programs.

1 Press ▦.

The current channel will be reduced in size and displayed in the center of the screen in normal motion picture format in FULL wide screen mode. The first twelve receivable channels, displayed in FULL wide screen mode, will appear one after another, clockwise, around the center picture. These small pictures are updated in intervals of one second. The channel number and channel caption (if set) on the second and later appearances will dim.



A cyan-colored frame will appear to indicate current channel selection.

2 Move the joystick in any direction to move the cyan frame to the picture that you wish to view, and press ⊕.

The selected channel will zoom in and move to the center, and the sound of that channel will be heard.

3 If you wish to view another channel, repeat step 2.

To view the normal picture of the selected channel, proceed to step 4.

4 Press ⊕.

The center picture will be enlarged for normal viewing.

Notes:

- You cannot move the cyan frame until all of the surrounding pictures appear.
- The projection TV will continually update each of the surrounding pictures while the CHANNEL INDEX screen is displayed.
- Sound will only be heard from the center picture.
- If one of the pictures received through CHANNEL INDEX is snowy, the entire screen may become unstable. In this case, erase the snowy channel. (see "CHANNEL SKIP/ADD" on page 54)
- If you leave the CHANNEL INDEX screen displayed for an hour without any additional operation, CHANNEL INDEX is canceled and the normal picture reappears.

Using the Yellow Labeled Buttons for CHANNEL INDEX Operations	
	Press to display the next twelve receivable channels.
OFF	Press to cancel the current operation and return to normal TV viewing.
FREEZE	Press to freeze the center picture. Press again to cancel the frozen picture and resume normal center picture viewing.
Using the White Labeled Buttons for Center Picture Operations	
TV/VIDEO	Press to scroll the center picture through the video inputs. The surrounding channels will not change.
▪TV ANT	Press to switch the center picture between the VHF/UHF input and the AUX input.
CH + / − or 0 - 9 and ENTER or JUMP	Press to select a channel for the center picture. (for details, see "Watching Conventional TV" on page 36)

REFER TO THE ILLUSTRATION OF THE REMOTE CONTROL ON THE INSIDE FRONT COVER OF THIS MANUAL AS YOU REVIEW THIS CHART

Using Conventional TV Features (continued)

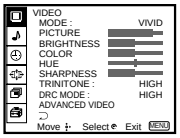
Learning Menu Selection

Use the MENU button to access a menu and use the joystick to alter the settings. Use the following example to learn how to modify settings.

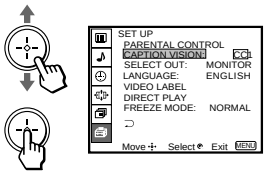
1 Press the MENU button.

The main menu appears.

MENU

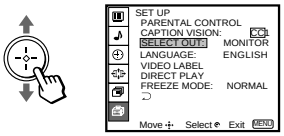


2 Move the joystick up or down to highlight the desired menu and press ⊕ (press down on the center of the joystick) to activate it.



You may also move the joystick right to activate your selection.

3 Move the joystick up or down to highlight the desired option.

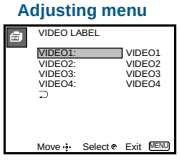


4 Press ⊕ (press down on the center of the joystick).

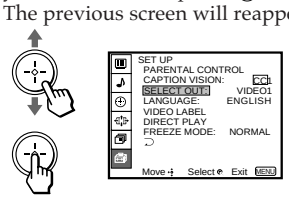
Options for your selection (Pop-up menu or Adjusting menu) will be displayed.

Pop-up menu

Adjusting menu



5 Move the joystick up or down to make your selection and press ⊕ to activate it. The previous screen will reappear.



Some adjustment menus may require further operations. For details, see each menu option.

To return to the previous screen (except for the slider adjustment menus), choose ⮌ at the bottom of the menu and press ⊕ or move the joystick left.

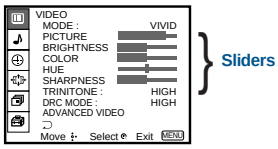
6 Once you have completed all menu corrections, press MENU to exit the menu screens.

MENU

To exit from the menus at any time

Press MENU.

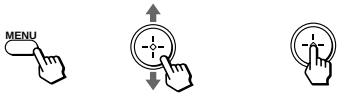
Using the VIDEO Menu



For detailed information on using the remote control to modify menu settings, refer to "Learning Menu Selection" on page 46.

To select the VIDEO menu:

Display → Highlight → Select



While in the VIDEO menu, move the joystick down to scroll down to ADVANCED VIDEO to adjust additional items, "DYNAMIC PICTURE," "NR," "COLOR CORRECTION" and "DC TRANSMISSION." (see page 48)

To restore the factory settings

Press RESET on the remote control while the VIDEO menu is selected. To restore each MODE to the factory setting, press RESET after selecting the mode to be reset.

MODE *Customized picture viewing*	You can choose one of five different video modes that best suits the program you are watching. You can also adjust the picture quality (such as BRIGHTNESS, COLOR, etc.) for each mode to suit your taste. First select each MODE individually before adjusting the picture quality. **VIVID:** Select for enhanced picture contrast and sharpness. **STANDARD:** Select to display a standard picture for normal viewing environments. **MOVIE:** Select to display a finely detailed picture for low light environments. **GAME:** Select to display graphics such as a video game. **PRO (Professional):** Select to display a picture with minimum enhancements. *Press PICTURE MODE on the remote control for direct selection of a MODE setting.*
PICTURE *Picture Adjustment*	Adjust slider right (up) to increase picture contrast. Adjust slider left (down) to decrease picture contrast.
BRIGHTNESS *Picture Adjustment*	Adjust slider right (up) to brighten the picture. Adjust slider left (down) to darken the picture.
COLOR *Picture Adjustment*	Adjust slider right (up) to increase color intensity. Adjust slider left (down) to decrease color intensity.
HUE *Picture Adjustment*	Adjust slider right (up) to increase the green tones. Adjust slider left (down) to increase the red tones.
SHARPNESS *Picture Adjustment*	Adjust slider right (up) to sharpen the picture. Adjust slider left (down) to soften the picture.
TRINITONE *White Intensity Adjustment*	**HIGH:** Select to give the white colors a blueish tint. **MEDIUM:** Select to give the white colors a neutral tint. **NTSC STD:** Select to give the white colors a reddish tint.

(continued)

Note:

- The items, "NR," "COLOR CORRECTION" and "DC TRANSMISSION" are not reset to the factory settings even if you press RESET.

Using Conventional TV Features (continued)

DRC MODE *Digital Reality Creation*	The DRC feature doubles both the vertical and horizontal information of the conventional NTSC signal, allowing you to obtain a fine-detailed, realistic picture with four-times higher density than the conventional NTSC picture. **HIGH:** Use when viewing DVD, Hi8, Laser Disc, or DBS source. **LOW:** Use when viewing VCR, CATV or ANT source. **GAME:** Use when viewing graphics such as a video game.
DYNAMIC PICTURE *Black Intensity Adjustment*	Select **ON** to emphasize the black level and to produce a bolder dynamic picture. Select **OFF** to cancel the feature.
NR *Noise Reduction*	Select **ON** to reduce picture noise. Select **OFF** to cancel the feature.
COLOR CORRECTION *Color Ratio Adjustment*	Select **ON** to emphasize reds and blues. Select **OFF** to reproduce skin tones.
DC TRANSMISSION *Black Level Adjustment*	Select **ON** to automatically improve the contrast ratio. Select **OFF** to reproduce the black level with no compensation.

Tip

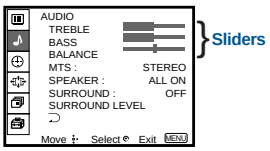
Since the fine-detailed DRC activated pictures contain information four times larger than conventional pictures, picture noise may appear. In this case, set NR to ON in the ADVANCED VIDEO menu.

Notes:

- The following items can be adjusted for each MODE setting (VIVID, STANDARD, etc.) Once the adjustments are made, the data is stored in the projection TV's memory and recalled whenever the corresponding MODE setting is selected.
  - PICTURE
  - BRIGHTNESS
  - COLOR
  - HUE
  - SHARPNESS
  - TRINITONE
  - DRC MODE
  - DYNAMIC PICTURE

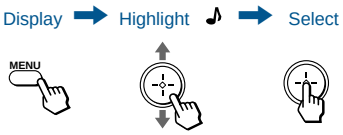
  The "NR," "COLOR CORRECTION," and "DC TRANSMISSION" settings, however, are set independently of the MODE setting, and remain in the ON or OFF position even if the MODE setting is changed.
- Some shooting games which involve pointing a light beam at the TV screen with an electronic gun or rifle cannot be used with this projection TV. For details, see the instruction manual supplied with the video game software.

Using the AUDIO Menu



For detailed information on using the remote control to modify menu settings, refer to "Learning Menu Selection" on page 46.

To select the AUDIO menu:



To restore the factory settings

Press RESET on the remote control while the AUDIO menu is selected.

TREBLE *Sound Adjustment*	Adjust slider right (up) to increase high pitched sounds. Adjust slider left (down) to decrease high pitched sounds.
BASS *Sound Adjustment*	Adjust slider right (up) to increase low pitched sounds. Adjust slider left (down) to decrease low pitched sounds.
BALANCE *Sound Adjustment*	Adjust slider right (up) to emphasize right speaker volume. Adjust slider left (down) to emphasize left speaker volume.
MTS *Enjoy stereo, bilingual and mono programs*	**STEREO:** Select for stereo reception when viewing a program broadcast in stereo. **SAP:** Select to listen to a bilingual broadcast. (non-SAP programs will be muted when this feature is selected) **MONO:** Select for mono reception. (use to reduce noise during stereo broadcasts) **Quick MTS access:** Press MTS on your remote control to cycle through the MTS options as follows: (STEREO → SAP → MONO → STEREO)
SPEAKER *Custom selection of audio output source*	**ALL ON:** Select to listen to the sound from the projection TV speakers alone. **L/R OFF:** Select to turn off the projection TV left and right speakers and listen to the left and right channel sounds through a separate audio system's speakers. **ALL OFF:** Select to turn off the projection TV speakers and listen to the projection TV's sound only through an external audio system's speakers. **CENTER IN:** Select to use the projection TV center speaker as center speaker when you connect an amplifier with a Dolby Pro Logic/Dolby Digital decoder. (see "Connecting an amplifier that supports Dolby Pro Logic/Dolby Digital decoder" on page 19)

(continued)

Using Conventional TV Features (continued)

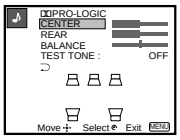
SURROUND *Customizes surround sound effects based on the program's audio type*	SURROUND can only be set when SPEAKER is set to ALL ON or L/R OFF. **PRO LOGIC:** Produces superb theater-like surround effects. Most effective for programs encoded in Dolby surround. **3 STEREO:** Produces a dynamic three dimensional sound without using the rear speakers. The sound of the rear channel is output from the front speakers. **SIMULATED:** Adds a surround-like effect to mono programs. **LIVE:** Produces surround effects with the atmosphere of a concert hall. **GAME:** Produces maximum audio impact. Most effective for video games. **OFF:** Normal stereo or mono reception.
SURROUND LEVEL *Speaker volume adjustment for surround modes*	After selecting one of the surround modes, adjust the volume of each speaker so that the sound will be even and natural. (see "Adjusting the Speaker Volume for Customized Surround Mode" on page 51)

Adjusting the Speaker Volume for Customized Surround Mode

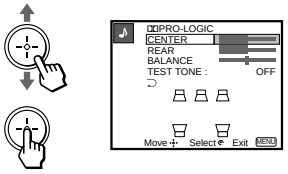
After you set SURROUND to one of the modes, adjust the volume of the front, center and rear speakers to the same level so that the projection TV's sound will be even and natural. For ◻◻PRO LOGIC and ◻◻3 STEREO, adjust the speaker volume using the test tone feature.

Adjusting the speaker volume

1 Select SURROUND LEVEL from the AUDIO menu. (see pages 49 and 50)



2 Move the joystick up or down to select the speaker for volume adjustment and press ⊕.



CENTER: Select to adjust the level of the center speaker. (not available for SIMULATED)

REAR: Select to adjust the level of the rear speakers. (not available for ◻◻3 STEREO)

BALANCE: Select to adjust the balance between the right and left speakers.

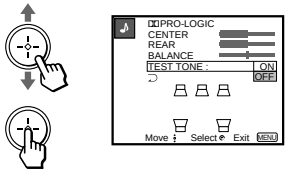
3 Move the joystick up, down, left or right to adjust the volume level and press ⊕.

4 Use the joystick to select other speakers and to adjust the volume levels.

Adjusting the speaker volume using the test tone

The TEST TONE feature makes it easier to adjust the volume level. You can use this feature for ◻◻PRO LOGIC and ◻◻3 STEREO modes only.

1 With the SURROUND LEVEL window open, move the joystick up or down to select TEST TONE and press ⊕.

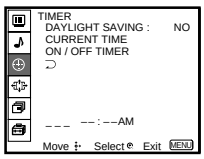


2 Move the joystick up or down to select ON.
A test tone will be output from each speaker in sequence:
Front left →Center →Front right →Rear

To turn off the test tone, select OFF.

3 Follow steps 2 through 4 in "Adjusting the speaker volume."

⊕ Using the TIMER Menu

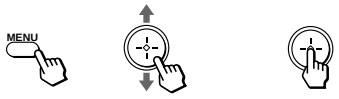


After setting the clock you can use the timer to turn the projection TV on and off.

For detailed information on using the remote control to modify menu settings, refer to "Learning Menu Selection" on page 46.

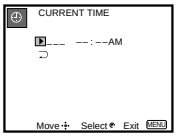
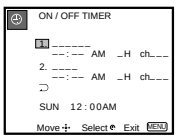
To select the TIMER ⊕ menu:

Display → Highlight ⊕ → Select

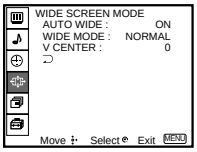


Tip

Set daylight saving time before setting the clock. Any loss of power will cause these settings to be erased.

DAYLIGHT SAVING *Automatically adjusts the time.*	**Spring:** Select **YES** to compensate for Daylight Saving Time. The current time automatically moves ahead one hour. **Fall:** Select **NO** at the end of Daylight Saving Time. The current time moves back one hour.
CURRENT TIME *Necessary for the TIMER.*	**1** Press ⊕, then move the joystick up or down until the current day (MON-SUN) is displayed, and press ⊕. **2** Move the joystick up or down until the current hour (01-12) and AM/PM is displayed, and press ⊕. **3** Move the joystick up or down until the current minute (00-59) is displayed, and press ⊕. The Clock has now started. Press MENU to exit. 
ON/OFF TIMER *Wake up or scheduled viewing.*	**1** Select the desired timer (1 or 2). **2** Move the joystick up or down until the desired day (MON-SUN) or range of days (EVERY SUN-SAT or EVERY MON-FRI) is displayed, and press ⊕. **3** Move the joystick up or down until the time (hours and minutes) that you want the projection TV to remain on is displayed, and then press ⊕. **4** Move the joystick up or down to set the time duration (maximum of 6 hours) and press ⊕. **5** Move the joystick up or down to select the desired channel and press ⊕. The timer is now set. The TIMER/STAND BY indicator on your projection TV will be lit. Press MENU to exit. To cancel your timer setting, select timer 1 or 2 and press RESET while in the ON/OFF TIMER window. Performing AUTO PROGRAM will erase all TIMER settings. 

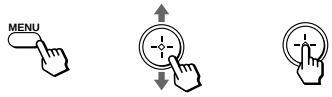
Using the WIDE SCREEN MODE Menu



For detailed information on using the remote control to modify menu settings, refer to "Learning Menu Selection" on page 46.

To select the WIDE SCREEN MODE Menu:

Display → Highlight → Select



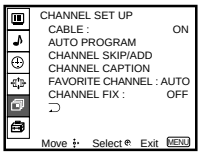
To restore the factory settings

Press RESET on the remote control while the WIDE SCREEN MODE menu is selected.

AUTO WIDE *Automatically selects the wide screen mode*	Select **ON** to automatically display the picture with an ID-1 or S1 (aspect ratio recorded) signal in an optimum wide screen mode; normal 4:3 picture in NORMAL, letterbox picture in ZOOM, and 4:3 squeezed picture in FULL. Select **OFF** if you want to choose the wide screen mode manually by pressing the WIDE MODE button.
WIDE MODE *Manually selects the wide screen mode*	You can select **NORMAL**, **WIDE ZOOM**, **ZOOM** or **FULL** for the 4:3 or letterbox picture to fill the 16:9 screen manually by pressing the WIDE MODE button. (for details on each mode, see "Using the Wide Screen Mode" on page 39)
V CENTER *Adjusts the position of the picture*	Allows you to move the picture vertically within the screen (available only in ZOOM and WIDE ZOOM modes). Move the joystick up or down to move the picture, and press ⊕.

Using Conventional TV Features (continued)

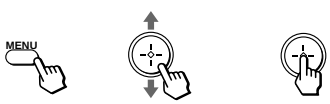
Using the CHANNEL SET UP Menu



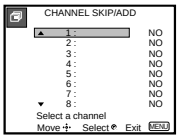
For detailed information on using the remote control to modify menu settings, refer to "Learning Menu Selection" on page 46.

To select the CHANNEL SET UP menu:

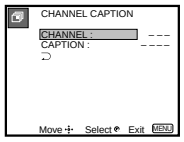
Display → Highlight → Select



CABLE *Cable system setting*	Select **ON** if your projection TV is connected to a cable system. Select **OFF** if your projection TV is connected to an antenna. AUTO SET UP will set CABLE to OFF automatically if a cable channel is not available.
AUTO PROGRAM *Automatic channel presetting*	Select **YES** to signal the projection TV to automatically program all receivable conventional TV channels. When all the receivable channels are stored, the lowest numbered channel is displayed. Select **NO** to cancel AUTO PROGRAM.
CHANNEL SKIP/ADD *Skips unnecessary channels*	After AUTO SET UP, you can erase unnecessary conventional TV channels from the channel preset memory. With the CHANNEL SKIP/ADD window open: **1** Move the joystick up or down to select the desired channel. You can view the channel that is selected with the CHANNEL SKIP/ADD menu in the center sub screen. You can also use CH +/– or 0–9 and ENTER buttons. **2** Press ⊕. **3** Move the joystick up or down to select YES, and press ⊕. The selected channel will be erased. If you want to re-enter the skipped channel, follow the steps above and select NO.



(continued)

CHANNEL CAPTION *Easy recognition of the channel you are watching*	You can add a caption for up to 32 channels of both VHF/UHF and AUX inputs. With the CHANNEL CAPTION window open: **1** Press ⊕ and then move the joystick up or down to select the desired channel. You can view the channel that is selected with the CHANNEL CAPTION menu in the center sub screen. **2** Press ⊕. **3** Move the joystick up or down to display the first letter or number of the caption and press ⊕ to select it. Repeat until up to four digits are selected. **4** Press ⊕. *To erase a caption, press RESET.* 
FAVORITE CHANNEL *User's favorite channels*	The FAVORITE CHANNEL feature enables easy access to the eight channels that you preset (or the last channel that you were watching). (for details on how to set up this feature, see "Setting and Selecting FAVORITE CHANNEL" on page 57)

(continued)

Using Conventional TV Features (continued)

CHANNEL FIX *Locks selection of your projection TV's input when used in conjunction with external equipment such as a cable box, AV receiver, etc.*	**2-6:** When the cable box is connected to the VHF/UHF input, you can fix the TV's input to one of the channels between 2 and 6. Press DBS/CABLE (FUNCTION) and then CH +/– to change the cable box channels. **AUX 2-6:** Use this when a cable box is connected to AUX, and a cable or antenna is connected to VHF/UHF. **VIDEO 1:** Use this when you have connected external video equipment (e.g. AV receiver) and you want the projection TV's input fixed to it. **OFF:** When you want to switch CHANNEL FIX off. If the projection TV is in the AUX mode when you turn CHANNEL FIX off, press ANT to return to UHF input mode. *TIMER settings are erased when CHANNEL FIX is set. (If ANT2-6 or AUX2-6 is selected, timer settings for those channels are not erased)*

Note:

- You cannot change channels with the TV's tuner when you set CHANNEL FIX. If you want to use the TV's tuner while fixing the TV's input to VIDEO 1, use the SET UP menu to set SELECT OUT to TV OUT. (see "SELECT OUT" on page 60)

Setting and Selecting FAVORITE CHANNEL

The FAVORITE CHANNEL feature of your projection TV enables easy access to the eight channels that you preset (or the last channel that you were watching).

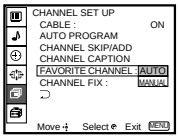
Your FAVORITE CHANNEL options can be set automatically or manually.

The factory setting for FAVORITE CHANNEL is AUTO.

When FAVORITE CHANNEL is set to AUTO, the last eight channels selected with the 0–9 buttons will be set as FAVORITE CHANNEL options. If you want to input your own selections as FAVORITE CHANNEL settings, set to MANUAL.

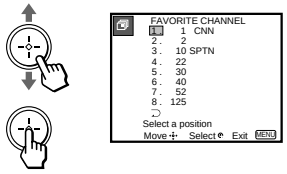
Setting FAVORITE CHANNEL manually

1 Select FAVORITE CHANNEL from the CHANNEL SET UP menu. (see pages 54 and 55)

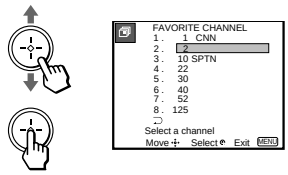


2 Move the joystick up or down to select MANUAL and press ⊕.

The FAVORITE CHANNEL menu will appear. If you set CHANNEL CAPTION names (e.g. CNN, HBO), they will also be displayed. (see "CHANNEL CAPTION" on page 55)

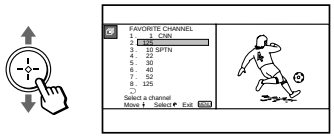


3 Move the joystick up or down to select a position (1–8), and press ⊕.



4 Move the joystick up or down to select a channel.

You have now selected a favorite channel.



5 Press ⊕ and use the joystick to program other favorite channels. (Follow steps 3 and 4.)

6 Press MENU when you have finished.

Your favorite channels are now ready for use.

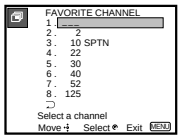
(continued)

Resetting FAVORITE CHANNEL choices

You have the option of returning to the FAVORITE CHANNEL screen to adjust any of your favorite channel choices.

Simply proceed as described in "Setting FAVORITE CHANNEL manually" (skip step 2 if MANUAL is already selected).

When you reach step 3, select the position you want to change and press ⊕. Press RESET to clear the channel for that position.



Move the joystick up or down to select a new channel.
Press MENU when you are done.

Note:

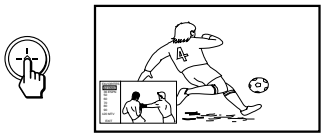
- The FAVORITE CHANNEL feature is not available for the picture input from AUX or VIDEO 5 IN, and for digital TV programs.

Using FAVORITE CHANNEL

You can use the FAVORITE CHANNEL feature to directly select the channel you want to watch.

1 Press ⊕ once.

The favorite channel menu and a window picture will be superimposed over the current channel. The window picture displays the channel selected from the menu.

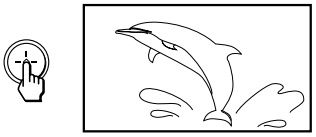


2 Move the joystick up or down to select the channel that you wish to view from the menu.

The picture of the selected channel will be displayed in the window picture.

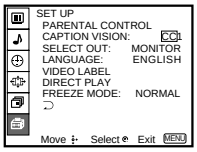
3 Press ⊕ to select the channel.

The selected channel will be displayed for normal viewing.



To cancel the favorite channel menu before selecting a channel, move the joystick up or down to select EXIT at the bottom of the menu and press ⊕.

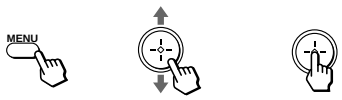
Using the SET UP Menu



For detailed information on using the remote control to modify menu settings, refer to "Learning Menu Selection" on page 46.

To select the SET UP menu:

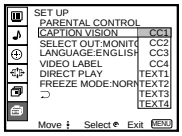
Display → Highlight → Select



Notes:

- When you set SELECT OUT to TV OUT, you cannot swap the main/right and window/left pictures.
- The SELECT OUT signal is only available when the projection TV is on.

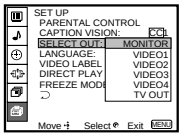
PARENTAL CONTROL *Blocks programs unsuitable for children*	Allows you to block TV programs that you feel are unsuitable for your children. (see "Using the PARENTAL CONTROL Feature" on page 64 for details) **PARENTAL LOCK**: Select **ON** to activate PARENTAL CONTROL. Programs that match the selected ratings will be blocked. Select **OFF** to turn off PARENTAL CONTROL. You can view all programs. **RATING:** Select to choose from three Sony's predetermined modes and one custom rating mode (**CHILD/YOUTH/YOUNG ADULT** and **CUSTOM**) **PASSWORD**: Select to change the password.
CAPTION VISION *Television closed caption display*	Some programs are broadcast with Caption Vision. To display Caption Vision, select CC1, CC2, CC3, CC4, TEXT1, TEXT2, TEXT3 or TEXT4 from the menu. Then press the CC button until Caption Vision is displayed. CC1, CC2, CC3 or CC4 displays a printed version of the dialogue or sound effects of a program. (The mode should be set to CC1 for most programs.) TEXT1, TEXT2, TEXT3, or TEXT4 displays network/station information presented using either half or the whole screen. **Notes:** • Poor reception of conventional TV programs can cause errors in Caption Vision and XDS. Captions may appear with a white box or other errors instead of the intended text. • XDS, Caption Vision, and the status display cannot be used at the same time.

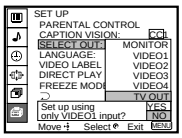


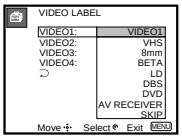
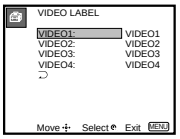
(continued)

Using Conventional TV Features (continued)

SELECT OUT *Output signal selection from SELECT OUT*	You can select the desired output signal from the SELECT OUT jacks on the upper panel at the rear. **MONITOR:** Select to edit tapes while monitoring. SELECTOUT outputs the picture displayed on the screen. **Note:** • With this setting, the picture input from VIDEO 5 IN or digital TV programs is not output from SELECT OUT. **VIDEO1–VIDEO4:** Select to edit tapes while viewing an input image different from that being recorded. SELECT OUT outputs the signal input to the projection TV regardless of the displayed picture on the screen. **TV OUT:** Select if you connect an AV receiver to VIDEO 1 IN. SELECT OUT outputs the signal that the TV is tuned to, regardless of the displayed picture. (see "Connecting an AV receiver" on page 17 for connection) If you select TV OUT, the following pop-up menu appears. **Note:** • With this setting, digital TV signal is not output from SELECT OUT. Select **YES** only if you have connected an AV receiver, with no other equipment, to your projection TV. You can always select the signal from the receiver by pressing TV/VIDEO once. **Note:** • If you select YES, you cannot view a digital TV program as SELECT OUT does not output a digital TV signal to the receiver. Select **NO** if you have connected multiple components to your projection TV. You can select an input (VIDEO1 – VIDEO4) with the TV/VIDEO button.

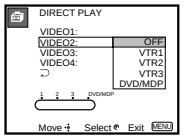
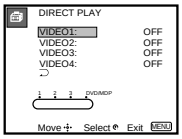




LANGUAGE *User's preferred language*	Select from available languages (**English** or **Spanish**) to display all menus in your language of choice.
VIDEO LABEL *Easy recognition of connected equipment (e.g. DBS, VHS, etc.).*	This feature allows you to label each input mode so that you can easily identify the connected equipment (e.g. you can label VIDEO 1 IN as VHS). With the VIDEO LABEL window open: **1** Move the joystick up or down to select the input mode you want to label and press ⊕.  **2** Move the joystick up or down to select the label and press ⊕. **VIDEO LABEL Options:** **VIDEO 1:** VIDEO 1, VHS, 8mm, BETA, LD, DBS, DVD, AV RECEIVER, SKIP **VIDEO 2–4:** VIDEO 2–4, VHS, 8mm, BETA, LD, DBS, DVD, SKIP *If you select SKIP, your projection TV will skip this connection when you scan through video sources using the TV/VIDEO button.* 

(continued)

Using Conventional TV Features (continued)

DIRECT PLAY *Easy operation of a connected VCR*	This feature allows you to switch the input mode from the TV to a Sony VCR (MDP or DVD) and start playing by only pressing the ► (playback) button on the remote control. You have to set the VTR 1/2/3/DVD/MDP switch on the remote control (e.g., you connect your VCR to the VIDEO 3 IN jacks and set the VTR 1/2/3/DVD/MDP switch to VTR 1). With the DIRECT PLAY window open: **1** Move the joystick up or down to select the input to which your video equipment is connected, and press ⊕.  **2** Move the joystick up or down to select the position of the VTR 1/2/3/DVD/MDP switch, and press ⊕. 

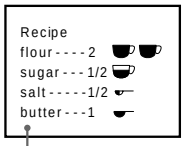
(continued)

FREEZE MODE
Freeze picture mode

Useful when you need to copy down information that appears on the TV's screen.

Note: The FREEZE MODE feature is not available for the inputs from VIDEO 5 IN and for digital TV programs.

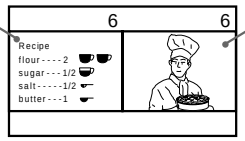
NORMAL: Select to freeze the whole picture on the screen by pressing FREEZE.



The current picture freezes.

TWIN: Select to freeze the desired scene and display it on the left of the screen while viewing the normal picture of the current channel on the right by pressing FREEZE.
This mode is not available for PIP, P&P or CH INDEX screens.

Frozen picture **Normal motion picture**



Press FREEZE again or press OFF to display the normal picture.

Using Conventional TV Features (continued)

Using the PARENTAL CONTROL Feature

TV programs and movies shown on TV are given a rating signal based on one of two rating systems. One is the Television Parental Guidelines to rate television programs (TV ratings), and the other is the Motion Picture Association of America (MPAA) Guidelines to rate movies including those shown on TV (movie ratings).

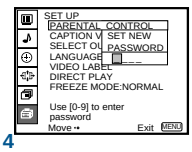
To block programs you feel are unsuitable for your children, you need to set the TV for both rating systems. Sony's predetermined ratings are also available.

See pages 70 and 71 for a description of the ratings.

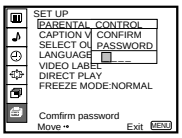
Activating the PARENTAL CONTROL Feature

First, set a password, then select your desired rating from Sony's predetermined ratings.

1 Select PARENTAL CONTROL from the SET UP menu. (see page 59)



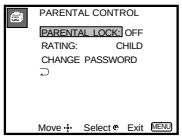
2 Enter a four digit password using the 0–9 buttons.



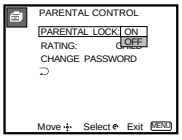
3 To confirm the password, re-enter the same password with the 0–9 buttons.

Your password is stored and the PARENTAL CONTROL menu automatically appears.

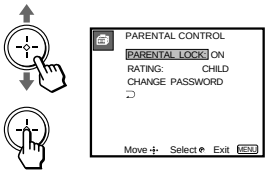
If you want to change the password, see page 69.



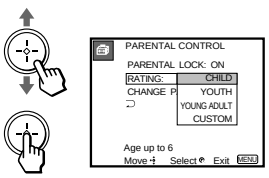
4 Make sure that PARENTAL LOCK is highlighted, and press ⊕.



5 Move the joystick up or down to select ON, and press ⊕.



6 Move the joystick up or down to select RATING, and press ⊕.



7 Move the joystick up or down to select a desired rating (CHILD, YOUTH and YOUNG ADULT), and press ⊕.

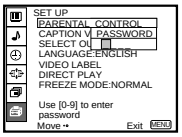
If you want to select the ratings from CUSTOM, go to step 4 of "Selecting a Custom Rating" on page 66.

8 Press MENU to exit the menu.

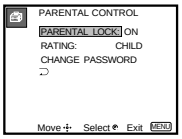
To deactivate the PARENTAL CONTROL feature

If you set PARENTAL LOCK in the PARENTAL CONTROL menu to OFF, the PARENTAL CONTROL feature will be canceled and you can view all TV programs and movies shown on TV.

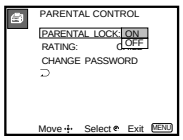
1 Select PARENTAL CONTROL from the SET UP menu. (see page 59)



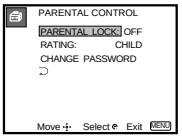
2 Enter your four digit password using the 0–9 buttons.



3 Move the joystick up or down to select PARENTAL LOCK, and press ⊕.



4 Move the joystick up or down to select OFF, and press ⊕.



5 Press MENU to exit the menu.

To deactivate the PARENTAL CONTROL feature for the current program

When you select a PARENTAL CONTROL program, no sound or picture except for a channel number will appear. The 🔒 indicator is displayed. To view the program, follow the steps below.

1 Press ENTER to display the "Password" screen.

2 Enter your password using the 0–9 buttons. Parental control will be canceled (PARENTAL LOCK set to OFF) until you turn your projection TV off.

(continued)

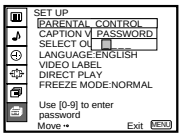
Using Conventional TV Features (continued)

Selecting a Custom Rating

If you want to select the ratings to be blocked from CUSTOM once you have activated the PARENTAL CONTROL feature (page 64), follow the procedure below.

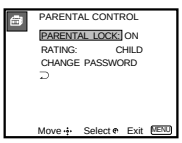
For a detailed description of each rating, see "What the Ratings Mean" on pages 70 and 71.

1 Select PARENTAL CONTROL from the SET UP menu. (see page 59)

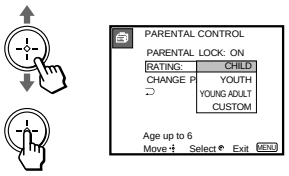


2 Enter your four digit password using the 0–9 buttons.

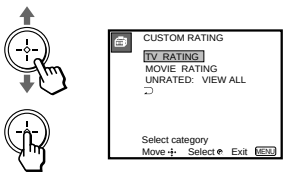
The PARENTAL CONTROL menu appears.



3 Move the joystick up or down to select RATING, and press ⊕.

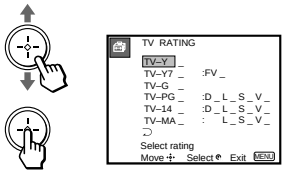


4 Move the joystick up or down to select CUSTOM, and press ⊕.

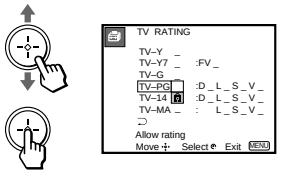


First, select a TV rating.

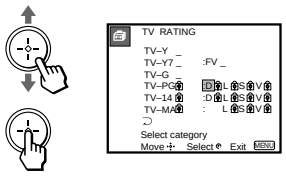
5 Move the joystick up or down to select TV RATING, and press ⊕.



6 Move the joystick up or down to select the TV rating to be blocked, and press ⊕.



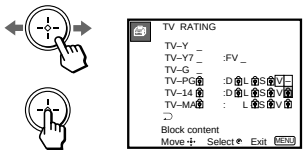
7 Move the joystick up or down to select 🔒, and press ⊕.
The 🔒 indicator automatically appears beside the selected rating and all "higher" ratings, indicating that the programs that match the ratings will be blocked.



Some ratings have additional content ratings called "extenders." The extenders are defined as follows: D (sexually suggestive Dialog), FV (Fantasy Violence), L (coarse Language), S (Sexual situations) and V (Violence). By setting the extenders, you can define additional viewing limits. For more details of extenders, see page 71.

All of the extenders included in the selected ratings will be blocked. If you wish to allow any of them to be viewed, go to step 8.

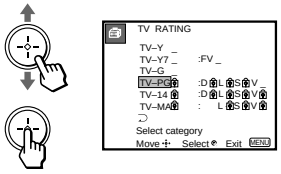
8 Move the joystick left or right to select the extender to be viewed, and press ⊕.



9 Move the joystick up or down to select "–," and press ⊕.

"–" appears beside the selected extender, indicating that the programs that match the extender can be viewed.

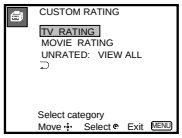
If you select 🔒, 🔒 is displayed to show that the programs that match the extender will be blocked again.



10 Repeat steps 8 and 9 for other extenders.

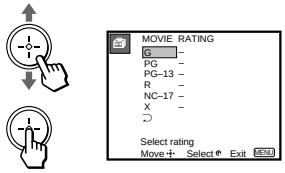
All programs that match the ratings you select and higher, except for the extenders that were canceled, will be blocked.

11 After setting of the TV rating is complete, move the joystick up or down to select ⮌, and press ⊕.



Second, select a movie rating.

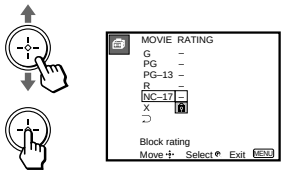
12 Move the joystick up or down to select MOVIE RATING, and press ⊕.



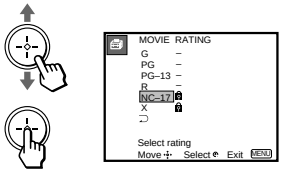
(continued)

Using Conventional TV Features (continued)

13 Move the joystick up or down to select the movie rating to be blocked, and press ⊕.



14 Move the joystick up or down to select 🔒, and press ⊕.
The 🔒 indicator automatically appears beside the selected rating and all "higher" ratings, indicating that the programs that match the ratings will be blocked.



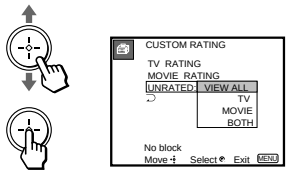
15 Press MENU to exit the menu.

To block TV programs and/or movies for which a rating signal is not given (NR and N/A)

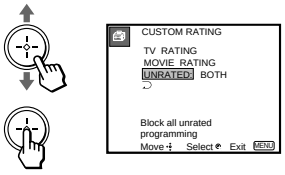
For a description of the NR and N/A ratings, see pages 70 and 71.

1 Perform steps 1–4 of "Selecting a Custom Rating" on page 66.

2 Move the joystick up or down to select UNRATED, and press ⊕.



3 Move the joystick up or down to select the type of programs to be blocked, and press ⊕.

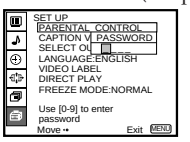


If you select VIEW ALL, you can view any TV program and movie that are unrated. If you select BOTH, all of the TV programs and movies unrated will be blocked.

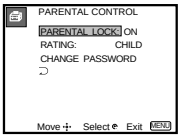
4 Press MENU to exit the menu.

Changing the Password

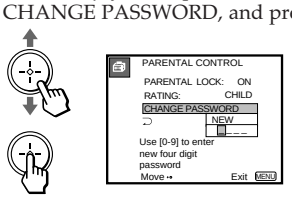
1 Select PARENTAL CONTROL from the SET UP menu. (see page 59)



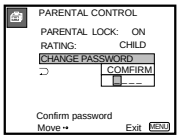
2 Enter your four digit password using the 0–9 buttons.
The PARENTAL CONTROL menu appears.



3 Move the joystick up or down to select CHANGE PASSWORD, and press ⊕.



4 Enter a new four digit password using the 0–9 buttons.



5 Enter the password set in step 4 again to confirm.

If you entered it incorrectly, "Password incorrect" appears.

Re-enter the correct password.

6 Press MENU to exit the menu.

If you have forgotten your password

In step 2 of "Changing the Password" above, enter the master password "4353" (corresponding to "HELP" on a phone number pad). You can then store a new password.

(continued)

What the Ratings Mean

Sony's predetermined ratings

These are original ratings that Sony predetermined according to the viewer's age. Each rating allows you to view the certain programs, as follows.

See pages 70 and 71 for a description of TV and movie ratings.

CHILD: Suitable for children under the age of 6.

Viewable movie ratings: G, NR, and N/A
Viewable TV ratings: TV-Y, TV-G, and TV-NR

YOUTH: Suitable for children aged 7 and older.
Viewable movie ratings: G, PG, NR, and N/A
Viewable TV ratings: TV-Y, TV-Y7, TV-G, TV-PG, and TV-NR

YOUNG ADULT: Suitable for children aged 14 and older.
Viewable movie ratings: G, PG, PG-13, NR, and N/A
Viewable TV ratings: TV-Y, TV-Y7, TV-G, TV-PG, TV-14, and TV-NR

Movie ratings

Movie ratings are for movies (including those shown on TV) rated according to the Motion Picture Association of America (MPAA) Guidelines.

G (General Audiences—All Ages Admitted): In G-rated films no strong words are used, the violence is at a minimum, nudity and sex scenes are not present, nor is there any drug use.

PG (Parental Guidance Suggested. Some Material May Not Be Suitable For Children): This is a film which may need to be monitored first by parents.

PG-13 (Parents Strongly Cautioned. Some Material May Be Inappropriate For Children Under 13): Parents are alerted to be very careful about the attendance of their under-teenage children when viewing.

R (Restricted, Under 17 Require Accompanying Parent Or Adult Guardian): This film includes hard language, tough violence, nudity, drug abuse or other elements of concern.

NC-17 or X (No One 17 Or Under Admitted.): This is a film that most parents would consider not suitable for children aged 17 and under. There may be violence, sex, abberrational behavior, drug abuse or other elements of concern.

NR (Not Rated): This is a film that a producer has not rated, intending to have his film widely released.

N/A (Not Applicable): This is a film that a producer considers outside the scope of the MPAA ratings.

Note:

- NR and N/A ratings are shown together as UNRATED in the menu.

TV ratings

TV ratings are for TV programs rated according to the Television Parental Guidelines.

TV-Y (All Children): This program is designed for young children aged 2–6 and is appropriate for all children.

TV-Y7 (Directed to Older Children): This program is designed for children aged 7 and above. Themes and elements in this program may include mild fantasy violence or slapstick violence, or may frighten children under the age of 7.

TV-G (General Audience): Most parents would find this program suitable for all ages. It contains little or no violence, no strong language and little or no sexual dialog or situations.

TV-PG (Parental Guidance Suggested): This program contains some material that parents may find unsuitable for younger children.

TV-14 (Parents Strongly Cautioned): This program contains some material that many parents would find unsuitable for children under the age of 14.

TV-MA (Mature Audience Only): This program is specifically designed to be viewed by adults and therefore may be unsuitable for children under the age of 17.

TV-NR (Not Rated/Unrated): This is a program broadcast without any rating, such as news, news flashes or sports.

This setting is shown as UNRATED in the menu.

Note:

TV-Y7, TV-PG, TV-14 and TV-MA ratings have additional content ratings called "extenders" to define additional viewing limits. The extenders are defined as follows:

D (sexually suggestive Dialog): Programs containing suggestive dialog, or sexual innuendo

FV (Fantasy Violence): Programs containing cartoon violence occurring in TV-Y7 programs only

L (coarse Language): Programs containing coarse language

S (Sexual situations): Programs containing sexual content

V (Violence): Programs containing violence

There may be some profanity, violence or brief nudity in these programs.

Operating Video Equipment

Setting the Manufacturer's Code

You can use the supplied remote control to operate Sony or non-Sony video equipment that has an infrared sensor.

1 Set the VTR 1/2/3/DVD/MDP switch to the input through which you would like to access your video equipment.

The following Sony equipment is preset to each input as shown below:

VTR1 (303) Beta, ED Beta VCRs
VTR2 (302) 8 mm VCR
VTR3 (301) VHS VCR
DVD/MDP (751) DVD Player

2 Press CODE SET, DVD/VTR (FUNCTION), and the 0-9 buttons to enter the manufacturer's code number (see the following chart), then press ENTER.

For example, to operate a Sony 8mm VCR:

If the remote control doesn't work

- See the note on page 73.

VCR manufacturer code numbers

Manufacturer	Code
Sony	301, 302, 303
Aiwa	338
Admiral (M. Ward)	327
Audio Dynamic	314, 337
Bell & Howell (M. Ward)	330, 343
Broksonic	319, 317
Canon	309, 308
Citizen	332
Craig	315, 302, 332
Criterion	315
Curtis Mathis	304, 338, 309
Daewoo	341, 312, 309
DBX	314, 336, 337
Dimensia	304
Emerson	319, 320, 316, 317, 318, 341
Fisher	330, 334, 335, 333
Funai	338
General Electric	329, 304, 309
Go Video	340, 339, 322
Goldstar	332
Hitachi	306, 304, 305, 338
Instant Replay	309, 308
JC Penney	309, 305, 304, 330, 314, 336, 337
JVC	314, 336, 337
Kenwood	314, 336, 332, 337
LXI (Sears)	332, 305, 333, 334, 330, 335, 338
Magnavox	308, 309, 310
Marantz	314, 336, 337
Marta	332
Memorex	309, 335
Minolta	305, 304
Mitsubishi/MGA	323, 324, 325, 326
Multitech	325, 338, 321
NEC	314, 336, 337
Olympic	309, 308
Optimus	327
Panasonic	308, 309, 306, 307
Pentax	305, 304
Philco	308, 309
Philips	308, 309, 310
Pioneer	308
Quasar	308, 309, 306
RCA/PROSCAN	304, 305, 308, 309, 311, 329, 312, 313, 310
Realistic	309, 330, 328, 335, 324, 338
Sansui	314
Singer	315
Samsung	322, 313, 321
Sanyo	330, 335
Scott	312, 313, 321, 335, 323, 324, 325, 326
Sharp	327, 328
Shintom	315
Signature 2000 (M. Ward)	338, 327
Sylvania	308, 309, 338, 310
Symphonic	338
SV2000	338
Tashiro	332
Tatung	314, 336, 337
Teac	314, 336, 338, 337
Technics	309, 308
Teknica	342, 338
Toshiba	312, 311
Wards	327, 328, 335, 331, 332
XR-1000	315
Yamaha	330, 314, 336, 337
Zenith	331

MDP manufacturer code numbers

Manufacturer	Code
Sony	701
Panasonic	704
Pioneer	702

DVD Player manufacturer code numbers

Manufacturer	Code
Sony	751
Panasonic	753
Pioneer	752
RCA	755
Toshiba	754

Tips

- *In some rare cases, you may not be able to operate your non-Sony video equipment with the supplied remote control. In this case, please use the equipment's own remote control.*
- *When you remove the batteries, the code number may revert to the factory setting.*

To operate video equipment

1 Set the VTR1/2/3/DVD/MDP switch to the input through which you would like to access your video equipment.

2 Use the VCR/DVD/MDP buttons indicated in the following tables.

Operating a VCR using the remote control	
To turn On/Off	Press DVD/VTR (POWER). [Green Button]
To select a channel	Press the 0 – 9 buttons.
To change channels	Press CH +/–.
To record	Press ⏺ (REC) while pressing ▭ (lower).
To play	Press ▶.
To stop	Press ■.
To fast forward	Press ▶▶.
To rewind the tape	Press ◀◀.
To pause	Press ❚❚. Press again to resume normal playback.
To search the picture forward or backward	Press ▶▶ or ◀◀ during playback. Release to resume normal playback.
To change input mode	Press TV/VTR.

Operating an MDP using the remote control	
To turn On/Off	Press DVD/VTR (POWER). [Green Button]
To play	Press ▶.
To stop	Press ■.
To pause	Press ❚❚. Press again to resume normal playback.
To search the picture forward or backward	Press ▶▶ or ◀◀ during playback. Release to resume normal playback.
To search a chapter forward or backward	Press CH +/–.

Operating a DVD Player using the remote control	
To turn On/Off	Press DVD/VTR (POWER). [Green Button]
To play	Press ▶.
To stop	Press ■.
To pause	Press ❚❚. Press again to resume normal playback.
To step through different tracks of an audio disc	Press ▶▶ to step forward or ◀◀ to step backward.
To step through different chapters of a video disc	Press CH+ to step forward or CH– to step backward.
To display the Title menu	Press TITLE.
To display the DVD menu	Press DVD MENU.
To select tracks directly	Press 0-9 buttons.
To display the menu (Set up)	Press MENU.

Operating a Cable Box or DBS Receiver

Setting the Manufacturer's Code

You can program the supplied remote control to operate a cable box or DBS receiver.

Press CODE SET, DBS/CABLE (FUNCTION), and the 0-9 buttons to enter the manufacturer's code number (see the following chart), then press ENTER.

For example, to operate a Sony DBS receiver:

Manufacturer code numbers (cable box)

Manufacturer	Code
Gemini	233
Hamlin/Regal	222, 223, 224, 225, 226
Jerrold/G. I.	201, 202, 203, 204, 205, 222, 206, 207, 208, 218
Macom	230, 231, 232
Magnavox	234
Oak	227, 228, 229
Panasonic	219, 220, 221
Philips	236, 237, 238, 239, 240, 241
Pioneer	214, 215
Samsung	235
Scientific Atlanta	209, 210, 211
Tocom	216, 217
Zenith	212, 213

Manufacturer code numbers (DBS receiver)

Manufacturer	Code number
Sony	801 (preset code for remote control)
General Electric	802
RCA/PROSCAN	802

To operate the projection TV

Press TV (FUNCTION). Then use the projection TV control buttons to control the projection TV.

For more details on operating the cable box or DBS receiver

Refer to the operating instructions that come with the equipment.

If the remote control doesn't work

- Try repeating the set up procedures using the other codes listed for your equipment.

Tips

- *If more than one code number is listed, try entering them one by one until you come to the correct code for your equipment.*
- *If you enter a new code number, the code number you previously entered at that setting is erased.*
- *In some rare cases, you may not be able to operate your equipment with the supplied remote control. In this case, use the equipment's own remote control unit.*
- *Whenever you remove the batteries — to replace them, for example — if too much time is taken, the code numbers may revert to the factory setting and must be reset.*

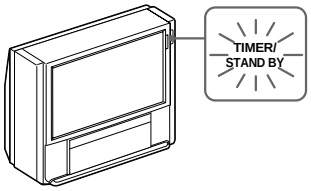
Troubleshooting

If, after reading the following instructions, you have additional questions related to the use of your Sony projection TV, please call one of the following numbers (English only).

Customers in the continental United States contact the Direct Response Center at:
1-800-222-SONY (7669)
Customers in Canada contact the Customer Relations Center at:
(416) 499-SONY (7669)

The picture turns off and the TIMER/STAND BY indicator on the front panel flashes (self-diagnosis function)

- The projection TV is equipped with a self-diagnosis function. If there is a problem with your projection TV, the TIMER/STAND BY indicator on the front panel will flash repeatedly. Counting the number of flashes helps you inform qualified Sony personnel of the projection TV's condition.



1 Count how many times the TIMER/STAND BY indicator flashes in total. It flashes twice at 3 seconds' intervals. If, for example, the indicator flashes twice, stops flashing for 3 seconds, and flashes twice again, that counts as twice.

2 Press POWER on the projection TV to turn it off, then inform qualified Sony personnel or the above Direct Response Center of the number of flashes.

No picture (screen not lit), no sound

- Make sure the power cord is plugged in.
- Operate with the buttons on both the projection TV and the remote control.
- Check to see if the TV/VIDEO setting is correct: when watching TV, set to TV, and when watching video tapes, set to VIDEO 1, 2, 3, 4 or 5.
- Try another channel. *It could be station trouble.*
- Perform AUTO SET UP again using "Auto Program" for digital channels, or using the SET UP button for conventional TV channels to return to the factory preset condition. (see "To perform AUTO SET UP again" on page 26)
- The PARENTAL CONTROL feature is activated. (see "To deactivate the PARENTAL CONTROL feature for the current program" on page 65)

Remote control does not operate

- Batteries could be weak. Replace the batteries.
- Press TV (FUNCTION) when operating your projection TV.
- Make sure the projection TV's power cord is connected securely to the wall outlet.
- Locate the projection TV at least 3-4 feet away from fluorescent lights.
- Check the S-Link connection. (see "Using the S-Link/CONTROL S Function" on page 20)
- Check the polarity of the batteries.

Dark, poor or no picture (screen lit), good sound

- Adjust PICTURE in the VIDEO menu. (see "PICTURE" on page 47)
- Adjust BRIGHTNESS in the VIDEO menu. (see "BRIGHTNESS" on page 47)
- Check antenna/cable connections.
- Perform AUTO SET UP again using "Auto Program" for digital channels, or using the SET UP button for conventional TV channels to return to the factory preset condition. (see "To perform AUTO SET UP again" on page 26)
- Adjust the convergence again using the AUTO FOCUS button. (see "Adjusting the Convergence Automatically (AUTO FOCUS) on page 27")

(continued)

Troubleshooting (continued)

Good picture, no sound

- Press MUTING so that "MUTING" disappears from the screen. (see "MUTING" on pages 29, 37)
- Check the MTS setting in the AUDIO menu. (see "MTS" on page 49)
- Make sure SPEAKER is set to ALL ON or L/R OFF in the AUDIO menu. (see "SPEAKER" on page 49)
- Perform AUTO SET UP again using "Auto Program" for digital channels, or using the SET UP button for conventional TV channels to return to the factory preset condition. (see "To perform AUTO SET UP again" on page 26)

No picture on a digital channel

- Switch to a different digital channel.

Cannot receive digital channels

- Press DTV ANT on the remote control so that the TV (FUNCTION) indicator lights up in green momentarily.
- Make sure that VHF/UHF antenna is connected to both VHF/UHF IN and VHF/UHF (DIGITAL) IN on the projection TV. You cannot receive digital channels unless you connect an analog terrestrial antenna. This is true even if you normally receive your programming through cable or satellite.
- Use "DTV Auto Add" in the Channel Setup menu to add receivable DTV channels that are not presently in DTV memory.
- Make sure that the DTV I/O cable is connected to both the lower and upper panels at the rear of the projection TV.
- Check your local listings to find out if you can receive digital broadcasts in your area.

Unable to select a digital channel

- Use "DTV Auto Add" in the CHANNEL SETUP Menu to add receivable DTV channels that are not presently in DTV memory.

Cannot receive conventional TV channels

- Press TV ANT on the remote control so that the TV (FUNCTION) indicator lights up in red momentarily.

Cannot receive upper channels (UHF) when using an antenna

- Make sure CABLE is OFF in the CHANNEL SET UP menu. (see "CABLE" on page 54)
- Use AUTO PROGRAM to add receivable channels that are not presently in the TV's memory. (see "AUTO PROGRAM" on page 54)

No color

- Adjust the COLOR in the VIDEO menu. (see "COLOR" on page 47)
- Black and white programs cannot be seen in color.
- Perform AUTO SET UP again using "Auto Program" for digital channels, or using the SET UP button for conventional TV channels to return to the factory preset condition. (see "To perform AUTO SET UP again" on page 26)

Only snow and noise appear on the screen

- Check the CABLE setting in the CHANNEL SET UP menu. (see "CABLE" on page 54)
- Check the antenna/cable connections.
- Make sure the channel is broadcasting programs.
- Press TV ANT to change the input mode. (see "TV ANT" on page 36)

Dotted lines or stripes

- Adjust the antenna.
- Keep the projection TV away from noise sources such as cars, neon signs or hair-dryers.

Noisy picture (when DRC is set to HIGH in the VIDEO menu)

- Soften the sharpness using SHARPNESS in the VIDEO menu.

TV is fixed to one channel

- Use AUTO PROGRAM to add receivable channels that are not presently in conventional TV's memory. (see "CHANNEL SETUP" on page 54)
- Try turning CHANNEL FIX off. (see "CHANNEL FIX" on page 56)

Double images or ghosts

- Use a highly directional outdoor antenna or a cable (when the problem is caused by reflections from nearby mountains or tall buildings).

Cannot operate the menu

- If the item you want to choose appears in gray, you cannot select it.
- Press the projection TV's power button off and on again.

Cannot receive any channels when using cable TV

- Make sure CABLE is ON in the CHANNEL SET UP menu. (see "CABLE" on page 54)
- Use AUTO PROGRAM to add receivable channels that are not presently in the TV's memory. (see "AUTO PROGRAM" on page 54)

Cannot gain enough volume when using a cable box

- Increase the volume at the cable box. Then press TV (FUNCTION) and adjust the projection TV's volume.

Projection TV malfunctions when using the S-Link function

- Make sure the projection TV's power cord is connected securely to the wall outlet.
- Check the S-Link connection. (see "Using the S-Link/CONTROL S Function" on page 20)

CHANNEL INDEX does not display all available channels

- Make sure CABLE is ON in the CHANNEL SET UP menu. (see "CABLE" on page 54)
- Use AUTO PROGRAM to add receivable channels that are not presently in the TV's memory. (see "AUTO PROGRAM" on page 54)

FAVORITE CHANNEL does not display your choices

- Verify that FAVORITE CHANNEL is set to MANUAL in the CHANNEL SET UP menu. (see "Setting FAVORITE CHANNEL manually" on page 57)

Some video sources do not appear when you press TV/VIDEO

- Ensure that VIDEO LABEL is not set to SKIP. (see "VIDEO LABEL" on page 61)

Recording through SELECT OUT does not function properly when recording in PIP or P&P mode

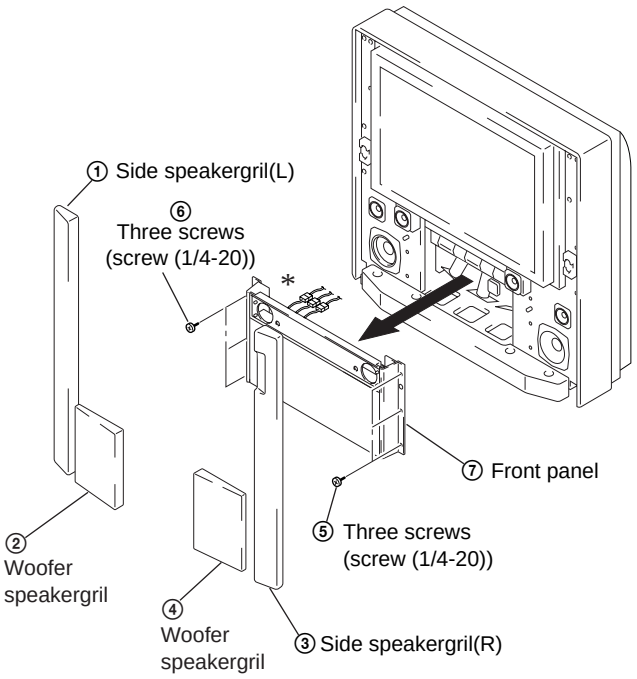
- SELECT OUT will not record both images in PIP or P&P. Only the main picture will be recorded.
- If you are recording the main picture and you switch to the sound of the sub picture using the AUDIO button, the main picture will be recorded with sound from the other program.

Cannot play shooting games

- Some shooting games which involve pointing a light beam at the TV screen with an electronic gun or rifle cannot be used with this projection TV. For details, see the instruction manual supplied with the video game software.

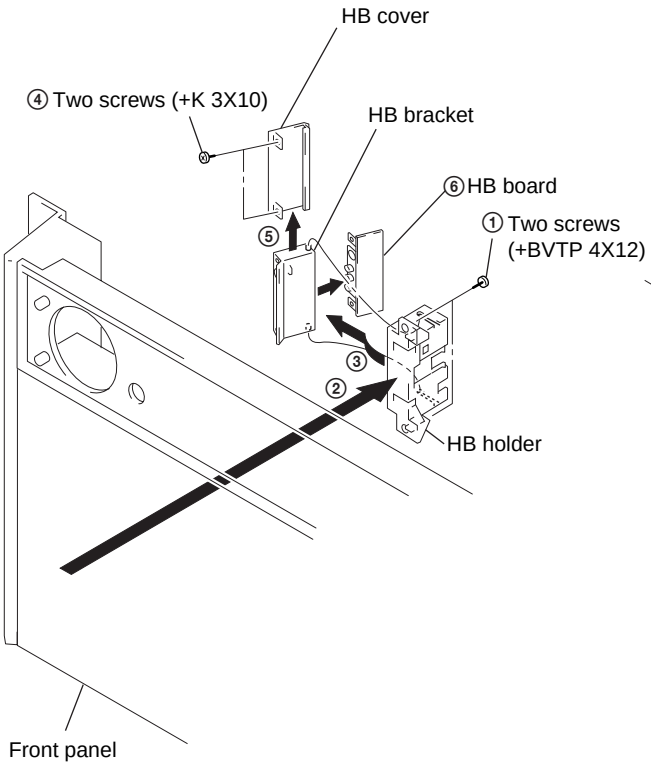
SECTION 2
DISASSEMBLY

2-1. FRONT PANEL REMOVAL

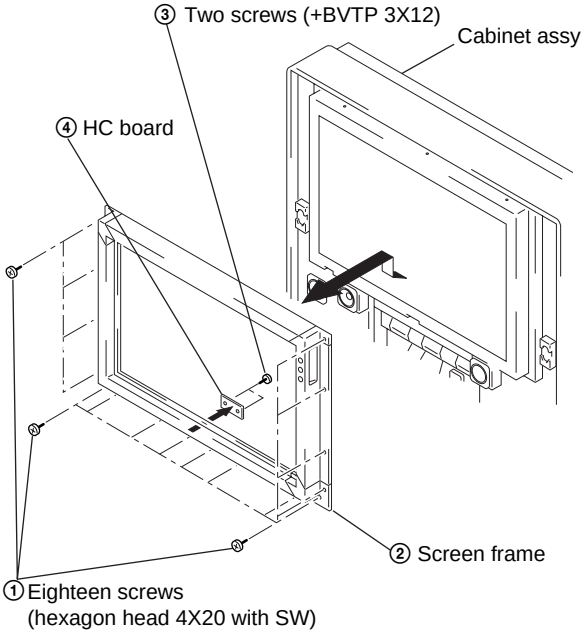


* Use caution not to pull on the when removing the connector after the panel has been removed.

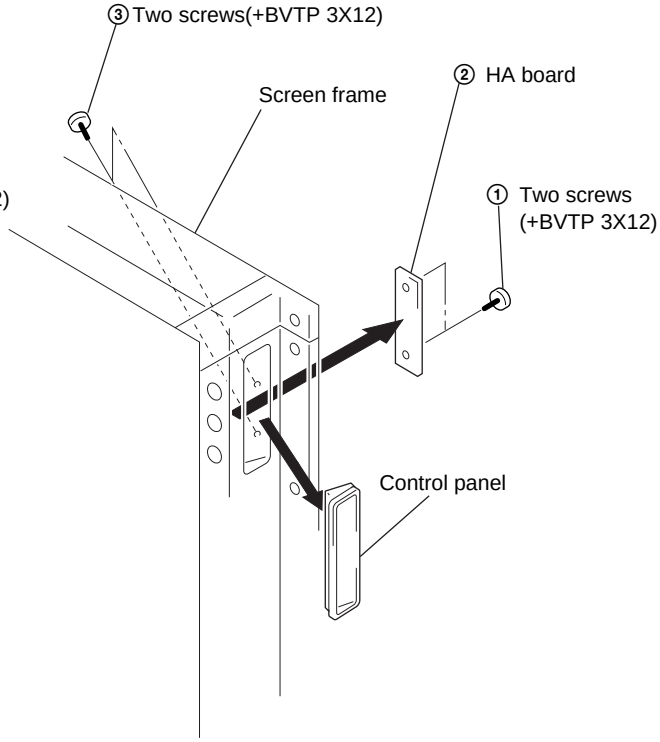
2-2. HB BOARD REMOVAL



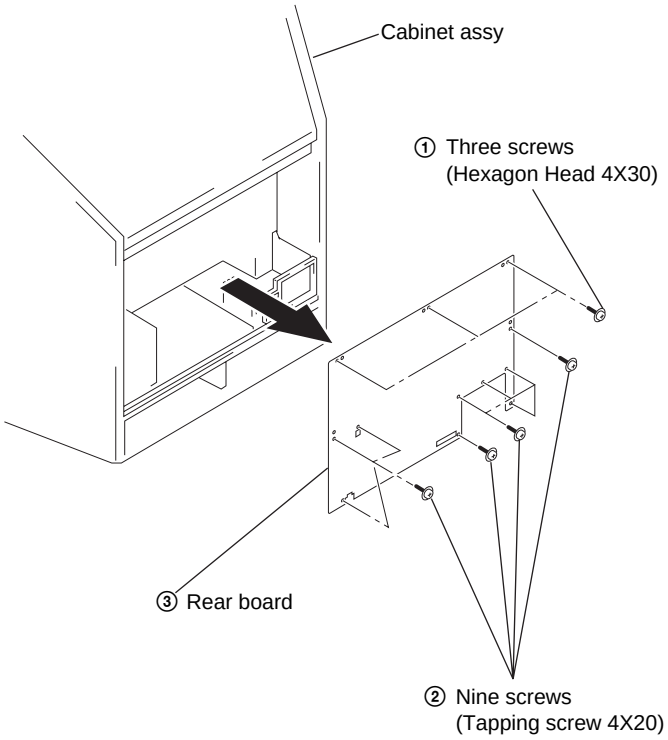
2-3. SCREEN FRAME ASSY AND HC BOARD REMOVAL



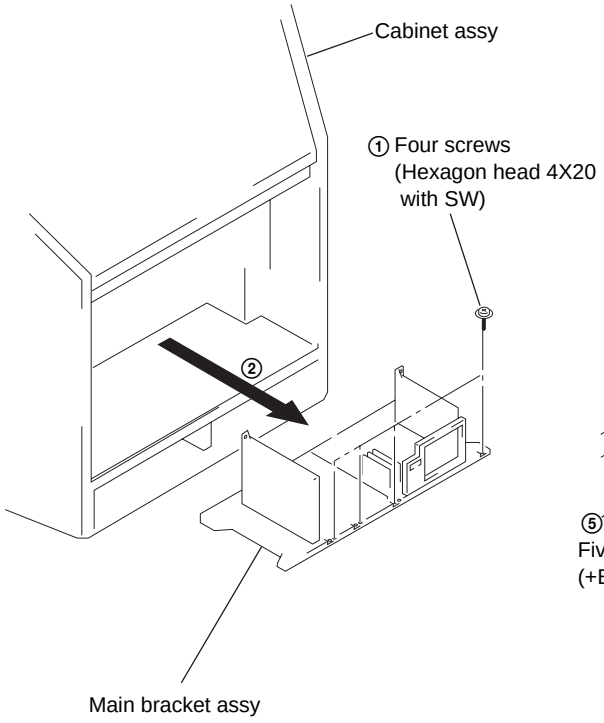
2-4. HA BOARD AND CONTROL PANEL REMOVAL



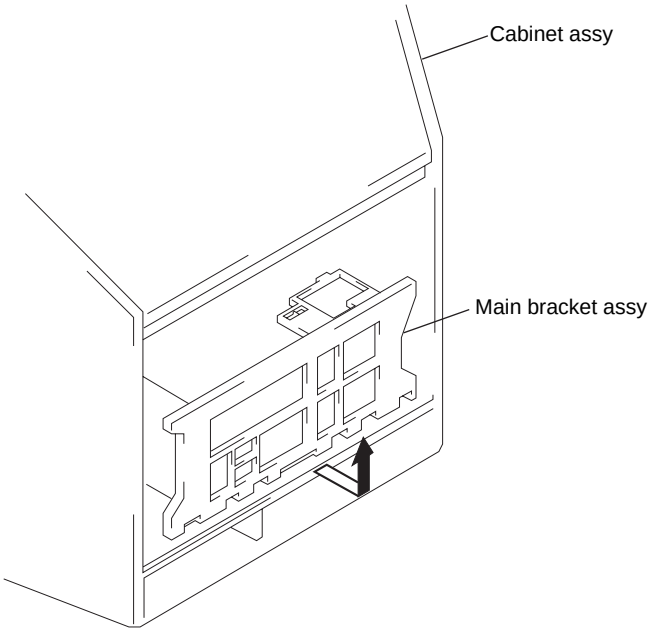
2-5. REAR BOARD REMOVAL



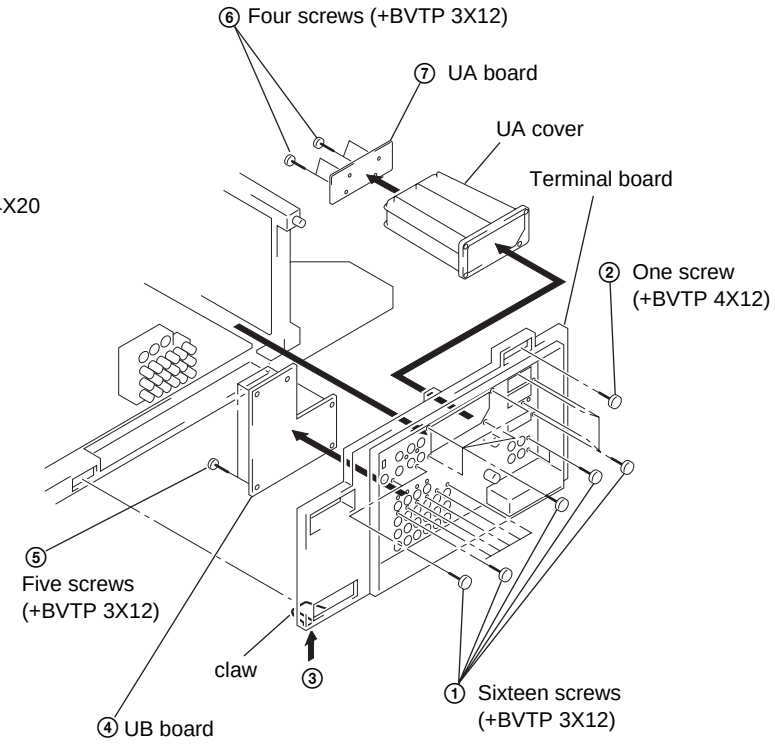
2-6. MAIN BRACKET REMOVAL



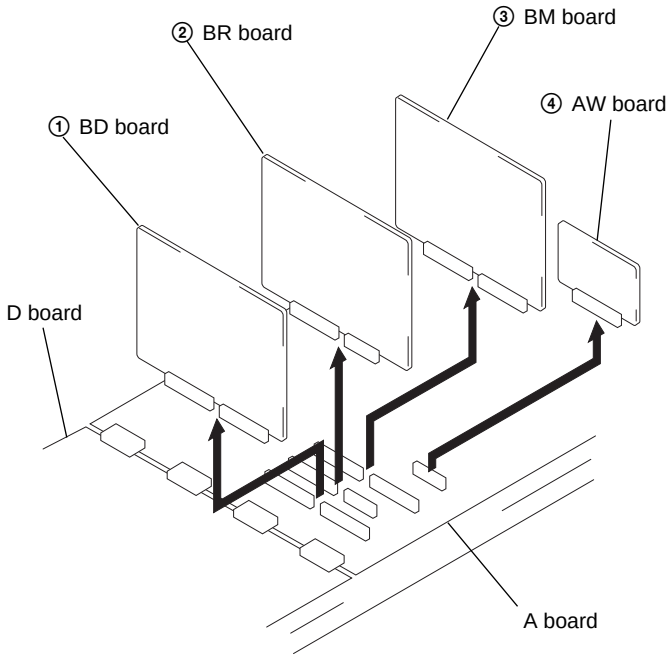
2-7. SERVICE POSITION



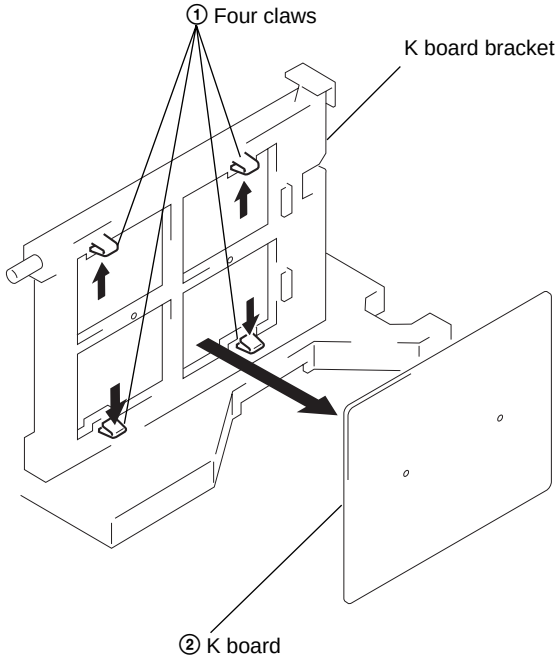
2-8. UA, UB AND TERMINAL BOARD REMOVAL



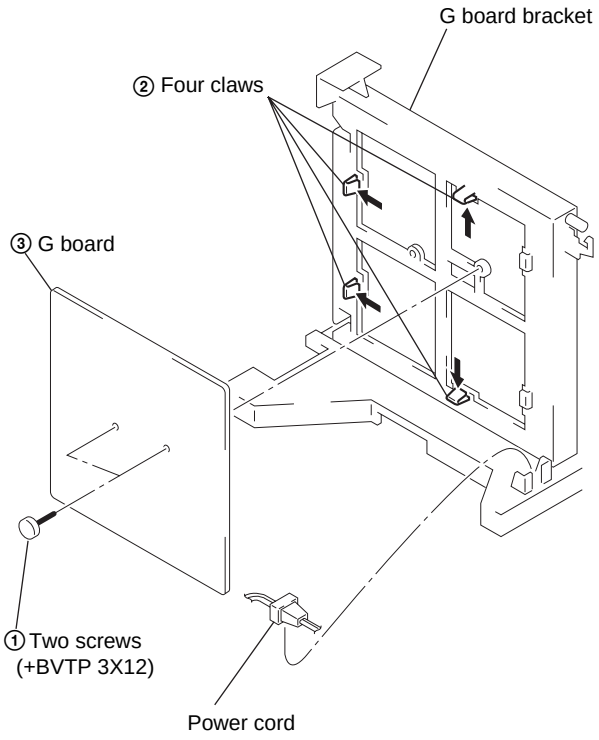
2-9. BD, BR, BM AND AW BOARDS REMOVAL



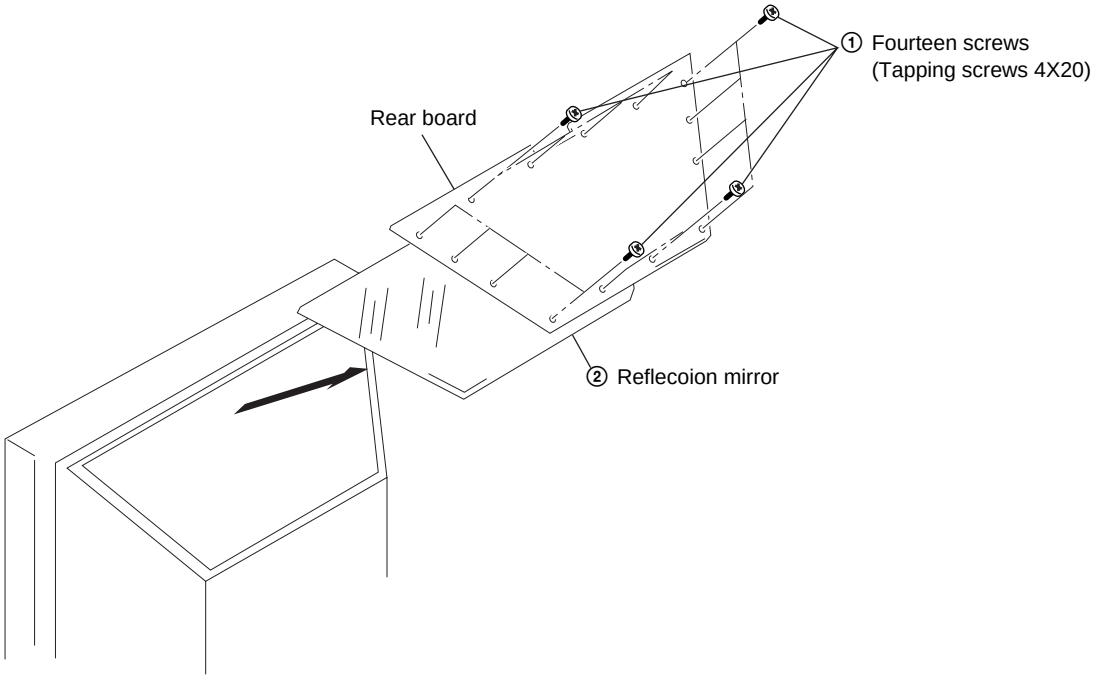
2-11. K BOARD REMOVAL



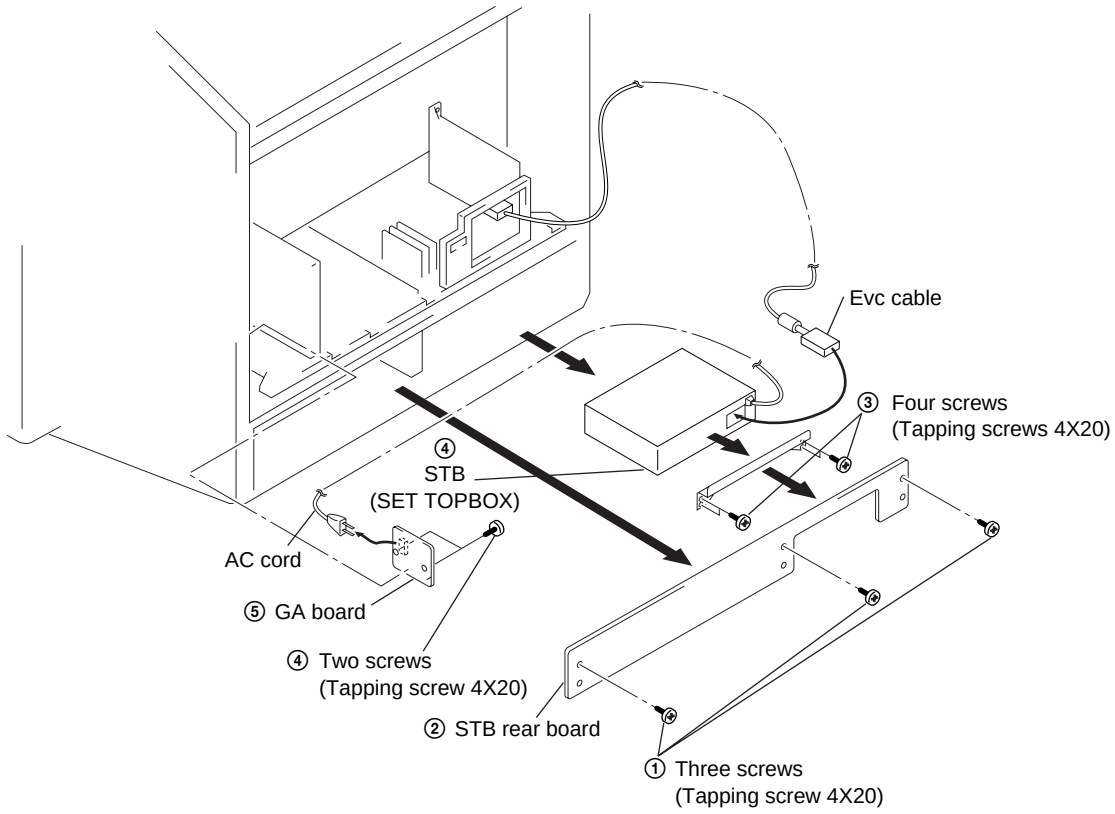
2-10. G BOARD REMOVAL



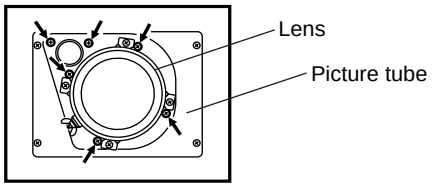
2-12. REFLECTION MIRROR REMOVAL



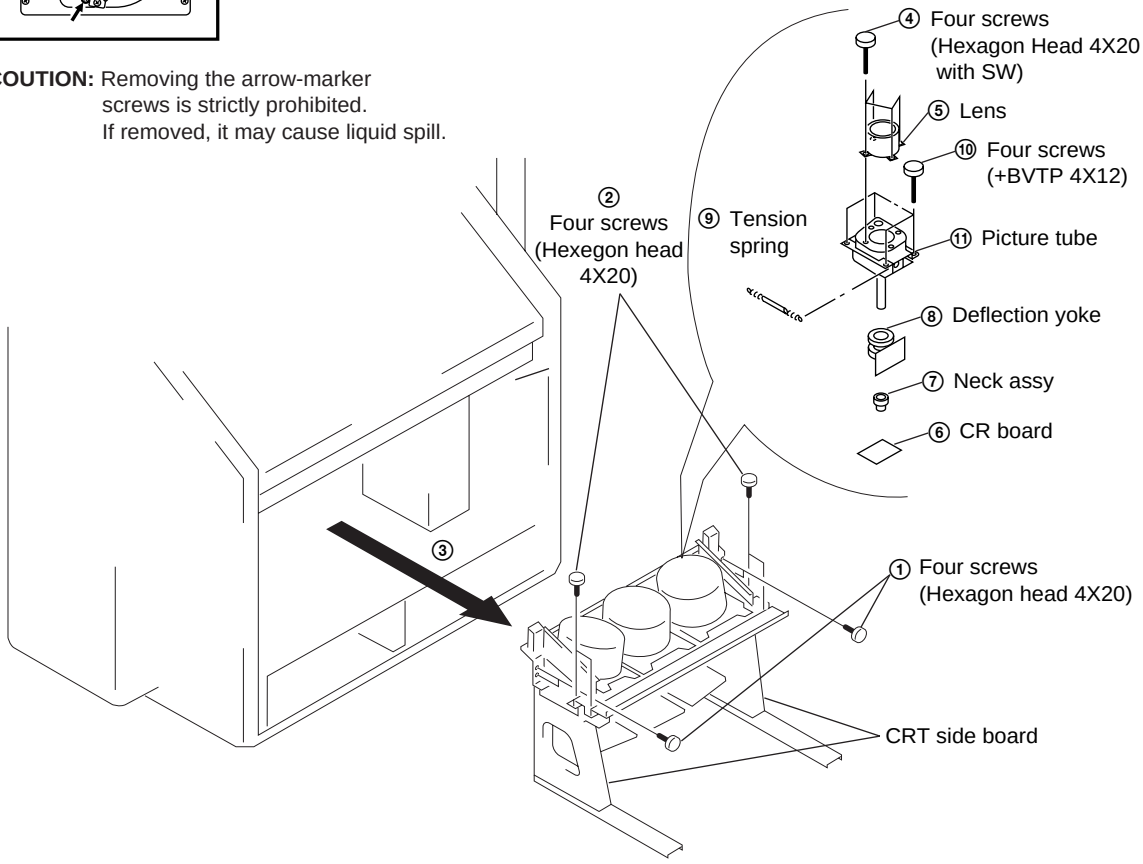
2-13. GA BOARD AND STB (SET TOP BOX) REMOVAL



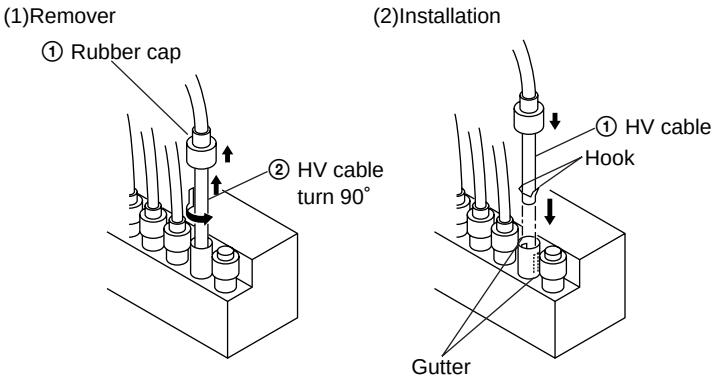
2-14. PICTURE TUBE REMOVAL



COUTION: Removing the arrow-marker screws is strictly prohibited. If removed, it may cause liquid spill.



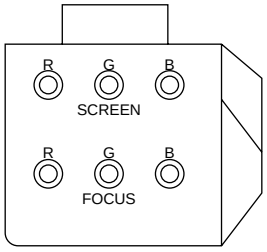
2-15. HIGH-VOLTAGE CABLE INSTALLATION AND REMOVAL



SECTION 3
SET-UP ADJUSTMENTS

3-1. SCREEN VOLTAGE ADJUSTMENT (ROUGH ALIGNMENT)

1. Receive the Monoscope signal.
2. Set 50% BRIGHTNESS and minimum PICTURE.
3. Turn the red VR on the FOCUS block all the way to the left and then gradually turn it to the right until the point where you can see the retrace line.
4. Next gradually turn it to the left to the position where the retrace line disappears.

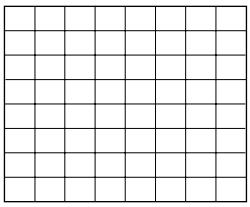


FOCUS block

Fig. 3-1

3-2. FOCUS LENS ADJUSTMENT

1. Loose the lens screw.
2. Set in service mode.
3. Use MCP1 on the service mode menu to show only the green color.
4. Select " PJED " with the 1 and 4 keys on the remote control and press 6 key to display the test signal(crosshatch).
5. Rotate the green lens and align with the optimal focus point from the test signal.
6. Use MCP1 on the service mode menu to show only the red color.
   Select " PJED " with the 1 and 4 keys on the remote control and press 6 key to display the test signal(crosshatch).
7. Output the test signal and rotate the red lens to obtain the optimum focus.
8. Use MCP1 on the service mode menu to show only the blue color.
   Select " PJED " with the 1 and 4 keys on the remote control and press 6 key to display the test signal(crosshatch).
9. Output the test signal and rotate the blue lens to obtain the optimum focus.
10. Tighten the lens screw.



Test signal

Fig. 3-2

3-3. SCREEN (G2) ADJUSTMENT

1. Select VIDEO mode without signals.
2. Connect an oscilloscope to the TP7103(KR), TP7203(KG) and TP7303(KB) of CR board, CG board and CB board.
3. Adjust R, G and B screen voltage to 175 ± 2V with screen VR on the Focus block.

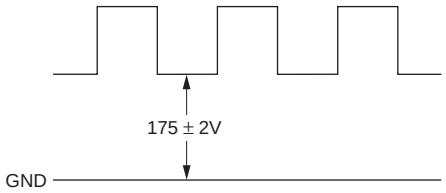
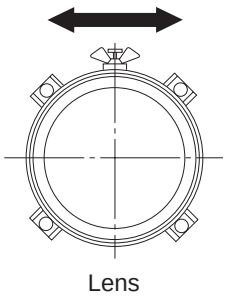


Fig. 3-3

3-4. FOCUS VR ADJUSTMENT

1. Set in service mode.
2. Use MCP1 on the service mode menu to show only the green color.
3. Select " PJED " with the 1 and 4 keys on the remote control and press 6 key to display the test signal(crosshatch).
4. Rotate the green VR on the FOCUS block and align to obtain the optimal focus point.
5. Use MCP1 on the service mode menu to show only the red color.
   Select " PJED " with the 1 and 4 keys on the remote control and press 6 key to display the test signal(crosshatch).
6. Output the test signal and rotate the red VR to obtain the optimum focus at the point where the red and green spots overlap.
7. Use MCP1 on the service mode menu to show only the blue color.
   Select " PJED " with the 1 and 4 keys on the remote control and press 6 key to display the test signal(crosshatch).
8. Output the test signal and rotate the blue VR aligning to obtain the optimum focus at the point where the blue and green spots overlap.



Lens

Fig. 3-4

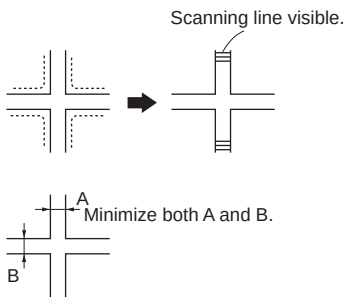


Fig. 3-5

3-5. DEFLECTION YOKE TILT ADJUSTMENT

1. Receive the Monoscope signal.
2. Set in service mode.
3. Use MCP1 on the service mode menu to show only the green color.
4. Loosen the deflection yoke set screw and align the tilt of the Deflection Yoke so that the bars at the center of the monoscope pattern are horizontal.
5. After aligning the deflection yoke, fasten it securely to the funnel-shaped portion (neck) of the CRT.
6. The tilt of the deflection yoke for red is aligned by showing only the red ,and the tilt for blue is aligned by showing only the blue.

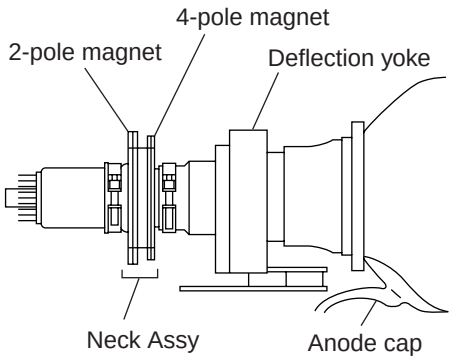


Fig. 3-6

3-6. 2-POLE MAGNET ADJUSTMENT

1. Receive the Dot signal.
2. Place the caps on the red and blue lens so that only the green color is shown.
3. Turn the green VR on the focus block to the right and set to overfocus to enlarge the spot.
4. Now align the 2-Pole Magnet so that the enlarged spot is in the center of the Just Focus spot.
5. Align the green focus VR and set for just (precise) focus.
6. Perform the same alignment for red and blue.

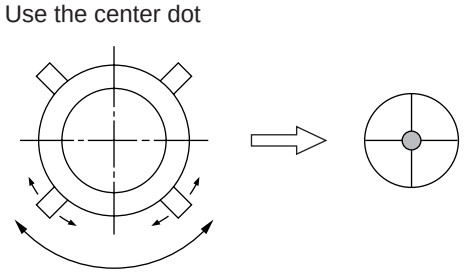


Fig. 3-7

3-7. 4-POLE MAGNET ADJUSTMENT

1. Receive the Dot signal.
2. Place the caps on the red and blue lens so that only the green color is shown.
3. Turn the green VR on the focus block to the left and set to underfocus to enlarge the spot.
4. Now align the 4-Pole Magnet so that the enlarged spot becomes a perfect circle.
5. Perform the same alignment for red and blue.

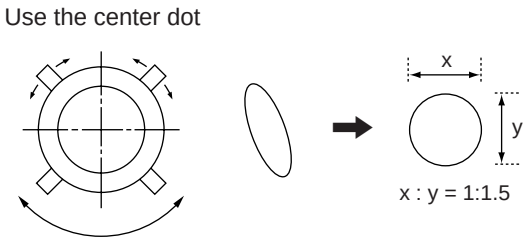


Fig. 3-8

3-8. DEFOCUS ADJUSTMENT (Blue)

1. Receive the crosshatch signal
2. Adjust the FOCUS knob so that the crosshatch pattern vertical line width is as in the figure on the right.
3. Blue only defocus Adjustment.
   (1.5 X the green-just focus)

[Focus adjustment point]

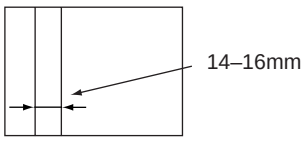


Fig. 3-9

3-9. ELECTRICAL ADJUSTMENT BY REMOTE COMMANDER

By using Remote Commander (RM-Y904),all circuit adjustments can be made.

NOTE : Test Equipment Required.

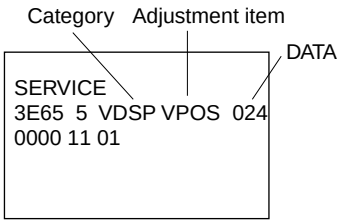
1. Pattern Generator
2. Frequency counter
3. Digital multimeter
4. Audio oscillator

1. METHOD OF SETTING THE SERVICE ADJUSTMENT MODE

SERVICE MODE PROCEDURE

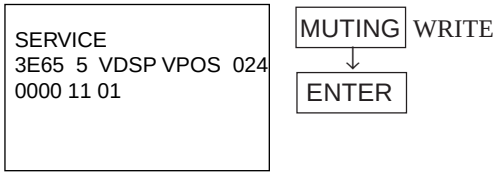
1. Standby mode. (Power off)
2. [DISPLAY] → [5] → [VOL (+)] → [TV POWER] on the Remote Commander.
   (Press each button within a second.)

SERVICE MODE ADJUSTMENT



3. The CRT displays the item being adjusted.
4. Press [1] or [4] on the Remote Commander to select the item.
5. Press [3] or [6] on the Remote Commander to change the data.
6. Press [2] or [5] on the Remote Commander to select the category.
7. If you want to recover the latest values press [0] then [ENTER] to read the memory.
8. Press [MUTING] then [ENTER] to write into memory.

SERVICE MODE ADJUSTMENT

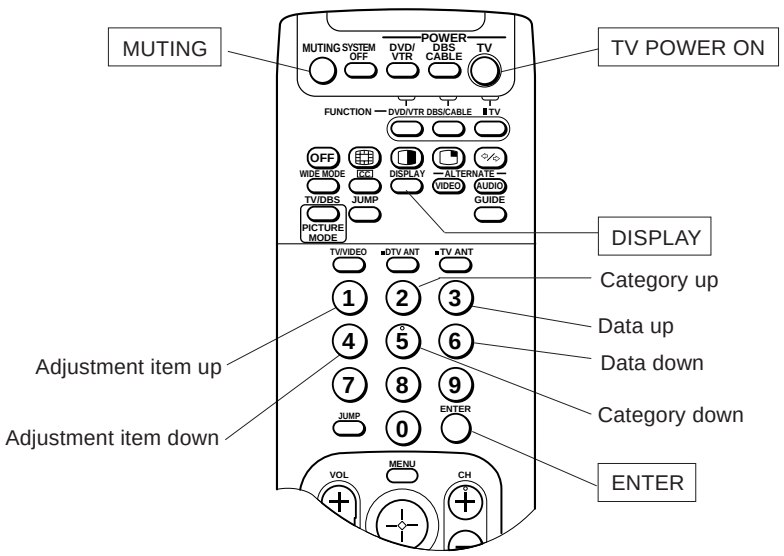


9. Press [8] then [ENTER] on the Remote Commander to initialize or turn set off and on to exit.

2. MEMORY WRITE CONFIRMATION METHOD

1. After adjustment, remove the plug from AC outlet, and then replace the plug in AC outlet again.
2. Turn the power switch ON and set to Service Mode.
3. Call the adjusted items again and confirm they were adjusted.

3. ADJUST BUTTONS AND INDICATOR



RM-Y904

4. SERVICE MODE LIST

VDSP (CXD2018Q)

ITEM NUMBER	ADJUSTMENT ITEM	DATA RANGE	STANDARD DATA				NOTE
			VIVID	STANDARD	MOVIE	PRO	
0	VPOS	0-63	31				V SHIFT
1	VANG	0-15	7				V ANGLE
2	VBOW	0-15	7				V BOW
3	VLIN	0-15	7				V LIN
4	VSIZ	0-63	31				V SIZE
5	VSCO	0-15	7	0	7	7	S CORRECTION
6	HPOS	0-63	31				H SHIFT
7	HSIZ	0-63	25	25	25	15	H SIZE
8	HKEY	0-15	7				H KEY
9	PAMP	0-63	31				PAMP
10	UPIN	0-15	7				UP PIN
11	LPIN	0-15	7				LO PIN

MCP1 (CXA2101AQ)

ITEM NUMBER	ADJUSTMENT ITEM	DATA RANGE	STANDARD DATA	NOTE
0	RDRV	0-63	31	R DRIVE
1	GDRV	0-63	31	G DRIVE
2	BDRV	0-63	31	B DRIVE
3	RCUT	0-63	31	R CUTOFF
4	GCUT	0-63	31	G CUTOFF
5	BCUT	0-63	31	B CUTOFF
6	SCON	0-15	9	SUB CONTRAST
7	SBRT	0-63	31	SUB BRIGHT
8	SHUE	0-15	7	SUB HUE
9	SCOL	0-15	12	SUB COLOR
10	P ON	0,1	1	PIC ON
11	R ON	0,1	1	R ON
12	G ON	0,1	1	G ON
13	B ON	0,1	1	B ON
14	PABL	0-15	12	PEAK ABL LEVEL
15	LTIL	0-3	1	LTI LEVEL
16	CTIL	0-3	1	CTI LEVEL
17	LIMT	0-3	1	INPUT LEVEL LIMIT
18	CBO1	0-15	7	CB OFFSET1
19	CRO1	0-15	7	CR OFFSET1
20	CBO2	0-15	7	CB OFFSET2
21	CRO2	0-15	7	CR OFFSET2
22	DCTR	0-3	1	DC TRAN
23	DPIC	0-3	2	D PIC

MCP2-TV(CXA2101AQ)

ITEM NUMBER	ADJUSTMENT ITEM	DATA RANGE	STANDARD DATA	NOTE
0	SSHP	0-3	3	SUB SHARPNESS(TV)
1	SHPF	0-3	3	SHARPNESS fO(TV)
2	VMDL	0-3	3	VM DELAY(TV)
3	SYS	0-3	1	SYSTEM(TV)
4	PREO	0-3	2	PRE/OVER RATIO(TV)

MCP3-VIDEO(CXA2101AQ)

ITEM NUMBER	ADJUSTMENT ITEM	DATA RANGE	STANDARD DATA	NOTE
0	SSHP	0-3	3	SUB SHARPNESS(VIDEO)
1	SHPF	0-3	3	SHARPNESS fO(VIDEO)
2	VMDL	0-3	3	VM DELAY(VIDEO)
3	SYS	0-3	1	SYSTEM(VIDEO)
4	PREO	0-3	2	PRE/OVER RATIO(VIDEO)

MCP4 (CXA2101AQ)

ITEM NUMBER	ADJUSTMENT ITEM	DATA RANGE	STANDARD DATA					NOTE
			VIVID	STANDARD	MOVIE	GAME	PRO	
0	UPIC	0-63	63	44	40	38	38	USER PICTURE
1	UBRT	0-63	28	31	31	27	31	USER BRIGHTNESS
2	UCOL	0-63	34	31	31	31	31	USER COLOR
3	USHP	0-63	50	36	33	36	36	USER SHARPNESS
4	UTRI	0-3	2	1	0	2	1	USER TRINITRONE
5	UDRC	0-3	2	2	1	0	1	USER DRC MODE
6	UDPI	0,1	1	1	0	0	1	USER DYNAMIC PICTURE
7	UVML	0-3	3	2	1	3	1	USER VM LEVEL
8	UGAM	0-15	0					USER GAMMA
9	USCN	0-7	0					USER SUB CONTRAST OFFSET

MCD1(CXA2019AQ)-DRC TV

ITEM NUMBER	ADJUSTMENT ITEM	DATA RANGE	STANDARD DATA	NOTE
0	SCON	0-15	4	SUB CONTRAST(DRC TV)
1	SHUE	0-15	7	SUB HUE(DRC TV)
2	SCOL	0-15	7	SUB COLOR(DRC TV)

MCD2(CXA2019AQ)-P&P TV

ITEM NUMBER	ADJUSTMENT ITEM	DATA RANGE	STANDARD DATA	NOTE
0	SCON	0-15	4	SUB CONTRAST(P&P TV)
1	SHUE	0-15	7	SUB HUE(P&P TV)
2	SCOL	0-15	7	SUB COLOR(P&P TV)

MCD3(CXA2019AQ)-DRC VIDEO

ITEM NUMBER	ADJUSTMENT ITEM	DATA RANGE	STANDARD DATA	NOTE
0	SCON	0-15	5	SUB CONTRAST(DRC VIDEO)
1	SHUE	0-15	7	SUB HUE(DRC VIDEO)
2	SCOL	0-15	7	SUB COLOR(DRC VIDEO)

MCD4(CXA2019AQ)-P&P VIDEO

ITEM NUMBER	ADJUSTMENT ITEM	DATA RANGE	STANDARD DATA	NOTE
0	SCON	0-15	5	SUB CONTRAST(P&P VIDEO)
1	SHUE	0-15	7	SUB HUE(P&P VIDEO)
2	SCOL	0-15	7	SUB COLOR(P&P VIDEO)

MCD5(CXA2019AQ)

ITEM NUMBER	ADJUSTMENT ITEM	DATA RANGE	STANDARD DATA	NOTE
0	MYDR	0-31	3	Y DRIVE
1	Y2DR	0-31	31	Y2 DRIVE
2	U2DR	0-31	15	U2 DRIVE
3	V2DR	0-31	15	V2 DRIVE
4	MUPE	0-15	7	U PED
5	MVPE	0-15	7	V PED
6	U2PE	0-15	7	U2 PED
7	V2PE	0-15	7	V2 PED
8	DPIC	0,1	1	D PIC
9	DCTR	0-7	0	DC TRAN

SCD1(CXA2019AQ)-TV

ITEM NUMBER	ADJUSTMENT ITEM	DATA RANGE	STANDARD DATA	NOTE
0	SCON	0-15	6	SUB CONTRAST(TV)
1	SHUE	0-15	7	SUB HUE(TV)
2	SCOL	0-15	7	SUB COLOR(TV)

SCD2(CXA2019AQ)-VIDEO

ITEM NUMBER	ADJUSTMENT ITEM	DATA RANGE	STANDARD DATA	NOTE
0	SCON	0-15	7	SUB CONTRAST(VIDEO)
1	SHUE	0-15	7	SUB HUE(VIDEO)
2	SCOL	0-15	7	SUB COLOR(VIDEO)

SCD3(CXA2019AQ)

ITEM NUMBER	ADJUSTMENT ITEM	DATA RANGE	STANDARD DATA	NOTE
0	MYDR	0-31	3	Y DRIVE
1	Y2DR	0-31	31	Y2 DRIVE
2	U2DR	0-31	15	U2 DRIVE
3	V2DR	0-31	15	V2 DRIVE
4	MUPE	0-15	7	U PED
5	MVPE	0-15	7	V PED
6	U2PE	0-15	7	U2 PED
7	V2PE	0-15	7	V2 PED
8	DPIC	0,1	1	D PIC
9	DCTR	0-7	0	DC TRAN

3DCM1(UPD64081)-YCS

ITEM NUMBER	ADJUSTMENT ITEM	DATA RANGE	STANDARD DATA	NOTE
0	NRMD	0-3	0	NRMD(YCS MODE)
1	DYCO	0-15	2	DYCOR(YCS MODE)
2	DYGA	0-15	11	DYGAIN(YCS MODE)
3	DCCO	0-15	1	DCCOR(YCS MODE)
4	DCGA	0-15	12	DCGAIN(YCS MODE)
5	SELD	0,1	1	SELD(YCS MODE)
6	D2GA	0-7	4	D2GAIN(YCS MODE)

3DCM2(UPD64081)-YCNR

ITEM NUMBER	ADJUSTMENT ITEM	DATA RANGE	STANDARD DATA	NOTE
0	NRMD	0-3	3	NRMD(YCNR MODE)
1	DYCO	0-15	2	DYCOR(YCNR MODE)
2	DYGA	0-15	11	DYGAIN(YCNR MODE)
3	DCCO	0-15	1	DCCOR(YCNR MODE)
4	DCGA	0-15	12	DCGAIN(YCNR MODE)
5	SELD	0,1	1	SELD(YCNR MODE)
6	D2GA	0-7	4	D2GAIN(YCNR MODE)

3DCM3(UPD64081)-TV

ITEM NUMBER	ADJUSTMENT ITEM	DATA RANGE	STANDARD DATA	NOTE
0	WSC	0-3	3	WSC(TV)
1	VTRH	0-3	1	VTRH(TV)
2	VTRR	0-3	1	VTRR(TV)
3	LDSR	0-3	3	LDSR(TV)
4	YPFT	0-3	3	YPFT(TV:NR OFF)
5	YPFG	0-15	12	YPFG(TV:NR OFF)
6	YPFC	0,1	0	YPFT CORING(TV:NR OFF)

3DCM4(UPD64081)-VIDEO

ITEM NUMBER	ADJUSTMENT ITEM	DATA RANGE	STANDARD DATA	NOTE
0	WSC	0-3	3	WSC(VIDEO)
1	VTRH	0-3	1	VTRH(VIDEO)
2	VTRR	0-3	1	VTRR(VIDEO)
3	LDSR	0-3	1	LDSR(VIDEO)
4	YPFT	0-3	3	YPFT(VIDEO:NR OFF)
5	YPFG	0-15	12	YPFG(VIDEO:NR OFF)
6	YPFC	0,1	0	YPFT CORING(VIDEO:NR OFF)

3DCM5(UPD64081)

ITEM NUMBER	ADJUSTMENT ITEM	DATA RANGE	STANDARD DATA	NOTE
0	MSS	0-3	0	MSS
1	YNKI	0-3	2	YNRK&YNRINV
2	YNRL	0-3	0	YNRLIM
3	CNKI	0-3	2	CNRK&CNRINV
4	CNRL	0-3	0	CNRLIM
5	YPFT	0-3	3	YPFT(NR ON)
6	YPFG	0-15	12	YPFG(NR ON)
7	YHCO	0-3	1	YHCOR(NR ON)
8	V1PS	0-3	2	V1PS
9	VEGS	0-3	1	VEGS
10	CC3N	0,1	0	CC3N
11	HDP	0-7	4	HDP
12	CDL	0-7	3	CDL
13	HSSL	0-15	12	HSSL
14	VSSL	0-15	3	VSSL
15	HPLF	0,1	1	HPLLFS
16	BPLF	0,1	1	BPLLFS
17	FSCFG	0,1	0	FSCFG
18	EXAD	0,1	1	ADIN
19	WSCT	0-255	255	WSL THRESHHOLD

OSD(OSD U-COM)

ITEM NUMBER	ADJUSTMENT ITEM	DATA RANGE	STANDARD DATA	NOTE
0	FREQ	0-255	95	OSD FREQ
1	HPOS	0-255	26	H POSITION
2	VPOS	0-255	95	V POSITION

MCCD(MAIN U-COM)

ITEM NUMBER	ADJUSTMENT ITEM	DATA RANGE	STANDARD DATA	NOTE
0	CRIL	0-15	2	CRI Count Low
1	CFLD	0-15	5	Caption Fixed-Field Count
2	CCDI	0-7	3	CCD INT
3	CRIP	0-7	4	CRI&Parity
4	CRIT	0-3	0	CRI Time Constant(Mask=0,OTP=1)
5	CSB1	0-3	3	Sync Slice Bias 1
6	CSB2	0-7	4	Sync Slice Bias 2
7	CREP	0-255	142	CRI Signal End Position
8	CDSD	0-31	8	Data Start Delay
9	CCDS	0-31	9	Caption data Threshold
10	CHMK	0-63	42	P8 hmask
11	CHSY	0-255	136	P8 hsync
12	CCDH	0-63	27	CCD H POSITION

APLR(TDA7312)

ITEM NUMBER	ADJUSTMENT ITEM	DATA RANGE	STANDARD DATA	NOTE
0	SVOL	0-15	0	SUB VOLUME
1	ATTL	0-15	0	ATT Lch
2	ATTR	0-15	0	ATT Rch
3	SBAS	0-15	7	SUB BASS
4	STRE	0-15	7	SUB TREBLE

APCS(TDA7312)

ITEM NUMBER	ADJUSTMENT ITEM	DATA RANGE	STANDARD DATA	NOTE
0	SVOL	0-15	0	SUB VOLUME
1	ATTC	0-15	0	ATT Cch
2	ATTS	0-15	0	ATT Sch
3	SBAS	0-15	7	SUB BASS
4	STRE	0-15	7	SUB TREBLE

MID(MID U-COM)

ITEM NUMBER	ADJUSTMENT ITEM	DATA RANGE	STANDARD DATA	NOTE
0	DLYC	0-7	3	DELAY(Y OUTPUT DELAY)
1	YSDY	0-7	1	YSDY(YS DELAY)
2	VJTC	0-3	0	YJITTC(V JITTER MODE)
3	HPHA	0~255	43	HPHASA(Ach H PHASE)
4	VPHA	0~255	11	VPHASA(Ach H PHASE)
5	DLYA	0-7	4	DELAYA(Ach Y DELAY)
6	HPOA	0-255	87	HPOSIA(Ach H POSITION:Not used)
7	VPOA	0-255	45	VPOSIA(Ach V POSITION:Not used)
8	HPHB	0-255	43	HPHASB(Bch H PHASE)
9	VPHB	0-255	11	VPHASB(Bch V PHASE)
10	DLYB	0-7	4	DELAYB(Bch Y DELAY)
11	HPOB	0-15	4	HPOSIB(Bch H POSITION:PIP ONLY)
12	VPOB	0-15	6	VPOSIB(Bch V POSITION:PIP ONLY)
13	BPDY	0-15	0	BPDELAY(BP DELAY)
14	ADSW	0,1	1	A/Bch ADC INT/EXT(EXT=1)
15	OSDH	0-63	25	OSD H POSITION
16	OSDV	0-63	7	OSD V POSITION
17	WCOL	0-3	2	WKCA/WKCB(A/Bch WINDOW COLOR)

OP(MAIN U-COM)

ITEM NUMBER	ADJUSTMENT ITEM	DATA RANGE	STANDARD DATA	NOTE
0	AGCA	0-255	152	AGC ATT LEVEL
1	16:9	0,1	0	16:9 ON/OFF(ON=1):Not used
2	VCHP	0,1	0	V CHIP 0N=1,0FF=0:Not used
3	SHAD	0,1	1	SHADING 0N=1,OFF=0

PJED(PJED U-COM)-FULL/NORMAL(WD=0,0)

ITEM NUMBER	ADJUSTMENT ITEM	DATA RANGE	STANDARD DATA	NOTE
0	FDIS	0,1	0	FINE ADJUST DISPLAY ON(ON=1,OFF=0)
1	OSDH	0-255	35	PJED OSD H POSITION
2	OSDV	0-255	55	PJED OSD V POSITION
3	FVST	0-255	82	FINE V START LINE
4	V1ST	0-255	0	V1 START
5	V1CU	0-255	30	V1 COUNT UP
6	COHP	0-255	2	COARSE H PHASE
7	FIHP	0-255	196	FINE H PHASE
8	TPHP	0-255	57	TEST PATTERN H PHASE
9	DFHP	0-255	250	DF H PHASE
10	DFHG	-128-127	80	DF H GAIN
11	DFVG	-128-127	30	DF V GAIN
12	PWM1	0-255	0	PWM1
13	PWM2	0-255	34	PWM2

ITEM NUMBER	ADJUSTMENT ITEM	DATA RANGE	STANDARD DATA	NOTE
14	HBLD	0-255	0	HBLKOUT H DELAY
15	HBLW	0-63	0	HBLKOUT PULSE WIDTH
16	COGV	-127-127	0	GV CENTER OFFSET OF AUTO REGI
17	CORV	-127-127	0	RV CENTER OFFSET OF AUTO REGI
18	COBV	-127-127	0	BV CENTER OFFSET OF AUTO REGI
19	COGH	-127-127	0	GH CENTER OFFSET OF AUTO REGI
20	CORH	-127-127	0	RH CENTER OFFSET OF AUTO REGI
21	COBH	-127-127	0	BH CENTER OFFSET OF AUTO REGI
22	SORV	-127-127	0	RV SKEW OFFSET OF AUTO REGI
23	SOBV	-127-127	0	BV SKEW OFFSET OF AUTO REGI
24	SOGH	-127-127	0	GH SKEW OFFSET OF AUTO REGI
25	SORH	-127-127	0	RH SKEW OFFSET OF AUTO REGI
26	SOBH	-127-127	0	BH SKEW OFFSET OF AUTO REGI
27	CENT	-512-511	0	COARSE RH CENTER ADJUST
		-512-511	0	COARSE GH CENTER ADJUST
		-512-511	0	COARSE BH CENTER ADJUST
		-512-511	0	COARSE RV CENTER ADJUST
		-512-511	0	COARSE GV CENTER ADJUST
		-512-511	0	COARSE BV CENTER ADJUST
28	SKEW	-512-511	0	COARSE RH SKEW ADJUST
		-512-511	0	COARSE BH SKEW ADJUST
		-512-511	0	COARSE GH SKEW ADJUST
		-512-511	0	COARSE RV SKEW ADJUST
		-512-511	0	COARSE BV SKEW ADJUST
29	SIZE	-512-511	-20	COARSE RH SIZE ADJUST
		-512-511	0	COARSE GH SIZE ADJUST
		-512-511	-20	COARSE BH SIZE ADJUST
		-512-511	-250	COARSE RV SIZE ADJUST
		-512-511	-250	COARSE GV SIZE ADJUST
		-512-511	-250	COARSE BV SIZE ADJUST
30	LIN	-512-511	230	COARSE RH LIN ADJUST
		-512-511	-230	COARSE BH LIN ADJUST
31	KEY	-512-511	100	COARSE RV KEY ADJUST
		-512-511	-100	COARSE BV KEY ADJUST
32	PIN	-512-511	350	COARSE RV PIN ADJUST
		-512-511	350	COARSE GV PIN ADJUST
		-512-511	350	COARSE BV PIN ADJUST

PJED(PJED U-COM)-WIDEZOOM(WD=0,1)

ITEM NUMBER	ADJUSTMENT ITEM	DATA RANGE	STANDARD DATA	NOTE
0	FDIS	0,1	0	FINE ADJUST DISPLAY ON(ON=1,OFF=0)
1	OSDH	0-255	35	PJED OSD H POSITION
2	OSDV	0-255	75	PJED OSD V POSITION
3	FVST	0-255	82	FINE V START LINE
4	V1ST	0-255	0	V1 START
5	V1CU	0-255	30	V1 COUNT UP

ITEM NUMBER	ADJUSTMENT ITEM	DATA RANGE	STANDARD DATA	NOTE
6	COHP	0-255	2	COARSE H PHASE
7	FIHP	0-255	196	FINE H PHASE
8	TPHP	0-255	57	TEST PATTERN H PHASE
9	DFHP	-128-127	250	DF H PHASE
10	DFHG	-128-127	80	DF H GAIN
11	DFVG	-128-127	30	DF V GAIN
12	PWM1	0-255	0	PWM1
13	PWM2	0-255	34	PWM2
14	HBLD	0-255	0	HBLKOUT H DLAY
15	HBLW	0-63	0	HBLKOUT PULSE WIDTH
16	COGV	-127-127	0	GV CENTER OFFSET OF AUTO REGI
17	CORV	-127-127	0	RV CENTER OFFSET OF AUTO REGI
18	COBV	-127-127	0	BV CENTER OFFSET OF AUTO REGI
19	COGH	-127-127	0	GH CENTER OFFSET OF AUTO REGI
20	CORH	-127-127	0	RH CENTER OFFSET OF AUTO REGI
21	COBH	-127-127	0	BH CENTER OFFSET OF AUTO REGI
22	SORV	-127-127	0	RV SKEW OFFSET OF AUTO REGI
23	SOBV	-127-127	0	BV SKEW OFFSET OF AUTO REGI
24	SOGH	-127-127	0	GH SKEW OFFSET OF AUTO REGI
25	SORH	-127-127	0	RH SKEW OFFSET OF AUTO REGI
26	SOBH	-127-127	0	BH SKEW OFFSET OF AUTO REGI
27	CENT	-512-511	0	COARSE RH CENTER ADJUST
		-512-511	0	COARSE GH CENTER ADJUST
		-512-511	0	COARSE BH CENTER ADJUST
		-512-511	0	COARSE RV CENTER ADJUST
		-512-511	0	COARSE GV CENTER ADJUST
		-512-511	0	COARSE BV CENTER ADJUST
28	SKEW	-512-511	0	COARSE RH SKEW ADJUST
		-512-511	0	COARSE BH SKEW ADJUST
		-512-511	0	COARSE GH SKEW ADJUST
		-512-511	0	COARSE RV SKEW ADJUST
		-512-511	0	COARSE BV SKEW ADJUST
29	SIZE	-512-511	-20	COARSE RH SIZE ADJUST
		-512-511	0	COARSE GH SIZE ADJUST
		-512-511	-20	COARSE BH SIZE ADJUST
		-512-511	-250	COARSE RV SIZE ADJUST
		-512-511	-250	COARSE GV SIZE ADJUST
		-512-511	-250	COARSE BV SIZE ADJUST
30	LIN	-512-511	230	COARSE RH LIN ADJUST
		-512-511	-230	COARSE BH LINADJUST
31	KEY	-512-511	100	COARSE RV KEY ADJUST
		-512-511	-100	COARSE BV KEY ADJUST
32	PIN	-512-511	400	COARSE RV PIN ADJUST
		-512-511	400	COARSE GV PIN ADJUST
		-512-511	400	COARSE BV PIN ADJUST

PJED(PJED U-COM)-ZOOM(WD=1,0)

ITEM NUMBER	ADJUSTMENT ITEM	DATA RANGE	STANDARD DATA	NOTE
0	FDIS	0,1	0	FINE ADJUST DISPLAY ON(ON=1,OFF=0)
1	OSDH	0-255	35	PJED OSD H POSITION
2	OSDV	0-255	95	PJED OSD V POSITION
3	FVST	0-255	82	FINE V START LINE
4	V1ST	0-255	0	V1 START
5	V1CU	0-255	30	V1 COUNT UP
6	COHP	0-255	2	COARSE H PHASE
7	FIHP	0-255	196	FINE H PHASE
8	TPHP	0-255	57	TEST PATTERN H PHASE
9	DFHP	0-255	250	DF H PHASE
10	DFHG	-128-127	80	DF H GAIN
11	DFVG	-128-127	30	DF V GAIN
12	PWM1	0-255	0	PWM1
13	PWM2	0-255	34	PWM2
14	HBLD	0-255	0	HBLKOUT H DLAY
15	HBLW	0-63	0	HBLKOUT PULSE WIDTH
16	COGV	-127-127	0	GV CENTER OFFSET OF AUTO REGI
17	CORV	-127-127	0	RV CENTER OFFSET OF AUTO REGI
18	COBV	-127-127	0	BV CENTER OFFSET OF AUTO REGI
19	COGH	-127-127	0	GH CENTER OFFSET OF AUTO REGI
20	CORH	-127-127	0	RH CENTER OFFSET OF AUTO REGI
21	COBH	-127-127	0	BH CENTER OFFSET OF AUTO REGI
22	SORV	-127-127	0	RV SKEW OFFSET OF AUTO REGI
23	SOBV	-127-127	0	BV SKEW OFFSET OF AUTO REGI
24	SOGH	-127-127	0	GH SKEW OFFSET OF AUTO REGI
25	SORH	-127-127	0	RH SKEW OFFSET OF AUTO REGI
26	SOBH	-127-127	0	BH SKEW OFFSET OF AUTO REGI
27	CENT	-512-511	0	COARSE RH CENTER ADJUST
		-512-511	0	COARSE GH CENTER ADJUST
		-512-511	0	COARSE BH CENTER ADJUST
		-512-511	0	COARSE RV CENTER ADJUST
		-512-511	0	COARSE GV CENTER ADJUST
		-512-511	0	COARSE BV CENTER ADJUST
28	SKEW	-512-511	0	COARSE RH SKEW ADJUST
		-512-511	0	COARSE BH SKEW ADJUST
		-512-511	0	COARSE GH SKEW ADJUST
		-512-511	0	COARSE RV SKEW ADJUST
		-512-511	0	COARSE BV SKEW ADJUST
29	SIZE	-512-511	-20	COARSE RH SIZE ADJUST
		-512-511	0	COARSE GH SIZE ADJUST
		-512-511	-20	COARSE BH SIZE ADJUST
		-512-511	-250	COARSE RV SIZE ADJUST
		-512-511	-250	COARSE GV SIZE ADJUST
		-512-511	-250	COARSE BV SIZE ADJUST
30	LIN	-512-511	230	COARSE RH LIN ADJUST
		-512-511	-230	COARSE BH LIN ADJUST
31	KEY	-512-511	100	COARSE RV KEY ADJUST
		-512-511	-100	COARSE BV KEY ADJUST
32	PIN	-512-511	450	COARSE RV PIN ADJUST
		-512-511	450	COARSE GV PIN ADJUST
		-512-511	450	COARSE BV PIN ADJUST

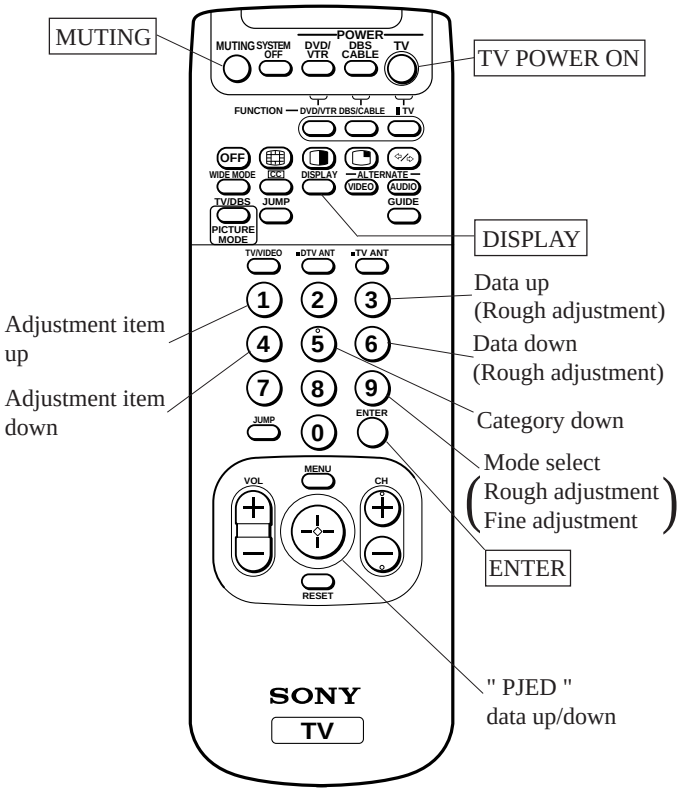
PJED(PJED U-COM)-HD(WD=1,1)

ITEM NUMBER	ADJUSTMENT ITEM	DATA RANGE	STANDARD DATA	NOTE
0	FDIS	0,1	0	FINE ADJUST DISPLAY ON(ON=1,OFF=0)
1	OSDH	0-255	35	PJED OSD H POSITION
2	OSDV	0-255	55	PJED OSD V POSITION
3	FVST	0-255	29	FINE V START LINE
4	V1ST	0-255	0	V1 START
5	V1CU	0-255	29	V1 COUNT UP
6	COHP	0-255	2	COARSE H PHASE
7	FIHP	0-255	196	FINE H PHASE
8	TPHP	0-255	57	TEST PATTERN H PHASE
9	DFHP	0-255	250	DF H PHASE
10	DFHG	-128-127	80	DF H GAIN
11	DFVG	-128-127	30	DF V GAIN
12	PWM1	0-255	0	PWM1
13	PWM2	0-255	34	PWM2
14	HBLD	0-255	0	HBLKOUT H DLAY
15	HBLW	0-63	0	HBLKOUT PULSE WIDTH
16	COGV	-127-127	0	GV CENTER OFFSET OF AUTO REGI
17	CORV	-127-127	0	RV CENTER OFFSET OF AUTO REGI
18	COBV	-127-127	0	BV CENTER OFFSET OF AUTO REGI
19	COGH	-127-127	0	GH CENTER OFFSET OF AUTO REGI
20	CORH	-127-127	0	RH CENTER OFFSET OF AUTO REGI
21	COBH	-127-127	0	BH CENTER OFFSET OF AUTO REGI
22	SORV	-127-127	0	RV SKEW OFFSET OF AUTO REGI
23	SOBV	-127-127	0	BV SKEW OFFSET OF AUTO REGI
24	SOGH	-127-127	0	GH SKEW OFFSET OF AUTO REGI
25	SORH	-127-127	0	RH SKEW OFFSET OF AUTO REGI
26	SOBH	-127-127	0	BH SKEW OFFSET OF AUTO REGI
27	CENT	-512-511	0	COARSE RH CENTER ADJUST
		-512-511	0	COARSE GH CENTER ADJUST
		-512-511	0	COARSE BH CENTER ADJUST
		-512-511	0	COARSE RV CENTER ADJUST
		-512-511	0	COARSE GV CENTER ADJUST
		-512-511	0	COARSE BV CENTER ADJUST
28	SKEW	-512-511	0	COARSE RH SKEW ADJUST
		-512-511	0	COARSE BH SKEW ADJUST
		-512-511	0	COARSE GH SKEW ADJUST
		-512-511	0	COARSE RV SKEW ADJUST
		-512-511	0	COARSE BV SKEW ADJUST

ITEM NUMBER	ADJUSTMENT ITEM	DATA RANGE	STANDARD DATA	NOTE
29	SIZE	-512-511	-20	COARSE RH SIZE ADJUST
		-512-511	0	COARSE GH SIZE ADJUST
		-512-511	-20	COARSE BH SIZE ADJUST
		-512-511	-250	COARSE RV SIZE ADJUST
		-512-511	-250	COARSE GV SIZE ADJUST
		-512-511	-250	COARSE BV SIZE ADJUST
30	LIN	-512-511	230	COARSE RH LIN ADJUST
		-512-511	-230	COARSE BH LIN ADJUST
31	KEY	-512-511	100	COARSE RV KEY ADJUST
		-512-511	-100	COARSE BV KEY ADJUST
32	PIN	-512-511	350	COARSE RV PIN ADJUST
		-512-511	350	COARSE GV PIN ADJUST
		-512-511	350	COARSE BV PIN ADJUST

3-10. REGISTRATION ADJUSTMENT

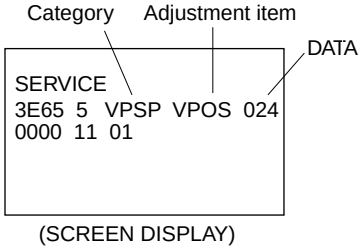
• ADJUST BUTTONS AND INDICATOR



[Setup for Adjustment]

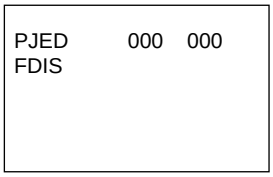
- Current flow in circuit should be stable before attempting adjustment. (So wait about 5 minutes after turning on the TV power switch.
- Use caution since this adjustment affects the [Green (Red, Blue,) Registration] when performed as a rough adjustment.

1. Generate a crosshatch signal and display it on the TV screen.
2. Place a cap over the red and blue picture tube guns and set to green (color).
3. Place in test mode.
   3-1. Turning on while in standby.
   (with TV power switch off)
   Press the remote control keys in the following order :
   DISPLAY → 5 → VOL+ → TV POWER

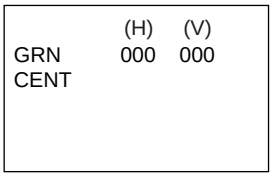


(SCREEN DISPLAY)

4. Shift to Sub-adjustment mode with key 5 on the remote control.



5. Select “OSDH” “OSDV” with the 1 and 4 keys on the remote control. Use the joystick key to move “OSDH” horizontally and “OSDV” vertically, set the OSD in an easy to see position.
6. Select “GRN CEN” with the 1 and 4 keys on the remote control and check that the adjustment data is now “000” both vertically and horizontally.



* You can now display the crosshatch pattern on the screen by using the 6 key on the remote control.

7. Shift to Main Test mode with the 2 key on the remote control.
8. Select “VPOS” “HPOS” with the 1 and 4 keys on the remote control. Align the centers of “VPOS” and “HPOS” with the 3 and 6 keys.
9. Shift to Subtest mode with the 5 key on the remote control.

SUB DEFLECTION ADJUSTMENT ITEM

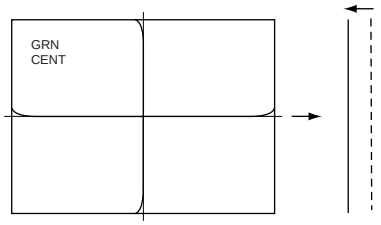
Adjustment O : Yes – : No
(The 4mode : FULL, WIDE ZOOM, ZOOM and HD are the same.)

Display	Adjustment item	Adjustment type					
		GH	GV	RH	RV	BH	BV
CENT	CENT	O	O	O	O	O	O
SKEW	SKEW	O	–	O	O	O	O
SIZE	SIZE	O	O	O	O	O	O
LIN	LIN	–	–	O	–	O	–
KEY	KEY	–	–	–	O	–	O
PIN	PIN	–	O	–	O	–	O

[GREEN REGISTRATION ADJUSTMENT]

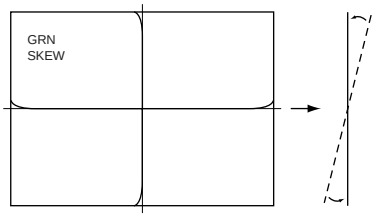
<GREEN CENTER ADJUSTMENT>

1. Select “GRN CENT” with the [1] and [4] keys on the remote control.
2. Use the joystick key on the remote control and adjust the vertical and horizontal section not possible in Main mode.



<GREEN SKEW>

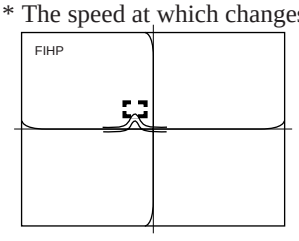
1. Select “GRN SKEW” with the [1] and [4] keys on the remote control.
2. Adjust with the joystick keys on the remote control so that there is no slope on the vertical and horizontal center line.



<H-PHASE ADJUSTMENT(COHP, FIHP, TPHP)>

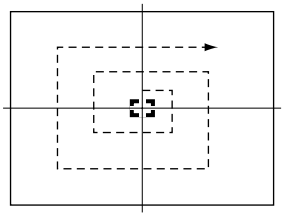
1. Select “COHP” with the [1] and [4] keys on the remote control and check that the data is the same as "SERVICE MODE LIST"
2. Select “EIHP” with the [1] and [4] keys on the remote control.
3. Shift to Fine Adjustment mode with the [9] key on the remote control.
4. Move the joystick key to increase the peak vertically in the + direction to form the peak as shown below.

* The speed at which changes in the peak occurs

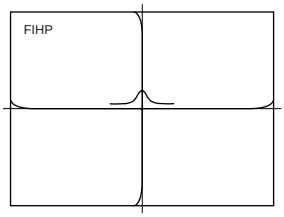


is slow so increasing the data for the peak will make it easier to see.

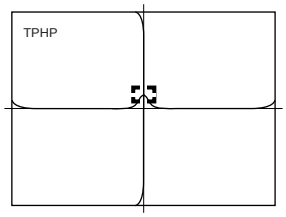
- Marker Movement
  (A vortex shape as shown below appears when the [1] key on the remote control is held down and when the vortex reaches the upper right it again returns to the center of the screen. Reverse this movement with the [4] key on the remote control.)



5. Shift to Rough Adjustment mode with the [9] key on the remote control.
6. Change the FIHP value with the joystick key so that the tip of the peak is in the center of the screen as shown below.

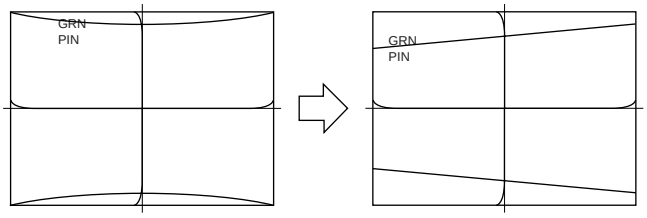


7. Select “TPHP” with the [1] and [4] keys on the remote control. The marker will now appear so use the [1] and [4] keys on the remote control to adjust to position the center of the marker in the screen center.
8. Shift to Fine Adjustment mode with the [9] key on the remote control and return the peak section data.



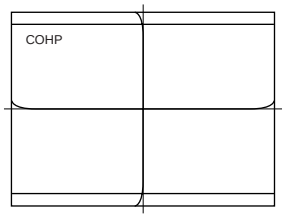
<GREEN PINCUSHION>

1. Shift to Rough Adjustment mode with the [9] key on the remote control.
2. Select “GRN PIN” with the [1] and [4] keys on the remote control.
3. Adjust with the joystick keys on the remote control so that the upper and lower horizontal lines changes from a crooked to nearly a straight shape. (A slope on the line is okay.)



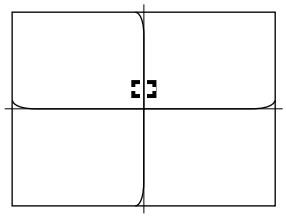
<COHP ADJUSTMENT>

1. Select "COHP" with the [1] and [4] keys on the remote control.
2. Adjust with the joystick keys on the remote control so that the slope of upper and lower horizontal lines is minimized (see below).



<Final Adjustment>

1. Shift to Fine Adjustment mode with the [9] key on the remote control.
2. Use the joystick keys and straighten the vertical and horizontal lines passing through the center spot of the screen. At this time also adjust the linearity especially in the horizontal direction of the middle section.



(Effective Adjustment Method)

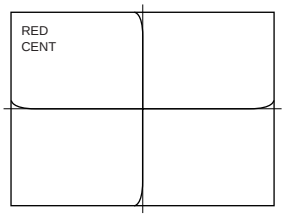
- This method allows moving to the target position by using the joystick key on the remote control. Shift as needed by pressing once at a time on the joystick key and use the adjust toggle to change the joystick key mode. Check if the mode has changed by viewing the marker color. (Note that this cannot be checked with only 1 color on the screen.)
- The marker color changes from white to green (red) each time the joystick is pressed. Set to white (color) when shifting the marker.

3. Adjust the screen marker from the center to above the vortex with the [1] key on the remote control. At this point be careful not to change the vertical and horizontal lines that were aligned in the previous adjustment.
   (Use the joystick key mentioned above for the point you want to align.)

[RED REGISTRATION ADJUSTMENT]

<CENTER ADJUSTMENT>

1. Shift to Rough Adjustment mode with the [9] key on the remote control.
2. Select "GRN CENT" with the [1] key on the remote control.
3. Switch to RED by specifying that color with the key on the remote control and align with the joystick to match with the center point of the screen aligned previously in green.

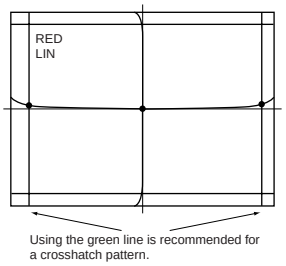


<SKEW ADJUSTMENT>

1. Select "RED SKEW" with the [1] key on the remote control while set in Rough Adjustment mode. Adjust the slope of the vertical and horizontal lines with the joystick key.

<LINEARITY ADJUSTMENT>

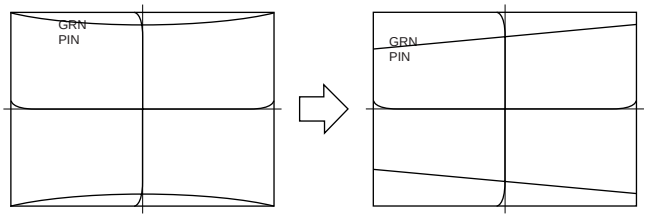
1. In rough adjustment mode, select "RED SIZE" and "RED LIN" with the [1] and [4] keys on the remote control and adjusting while alternately tracking each.
   - **H-LIN**
     Establish points at both ends of the screen as shown below. Adjust these 2 points and the center point with the joystick key so that they match with green point. (In this case, adjust by using the horizontal line in the center.)



     * Usually, the middle section deviates when both ends are aligned but when the peripheries of both ends are aligned, an extra margin of movement is obtained making for an effective adjustment.
   - **V-LIN**
     Select "RED SIZE" and adjust using the joystick keys.
     * V-LIN is adjusted only with "SIZE".

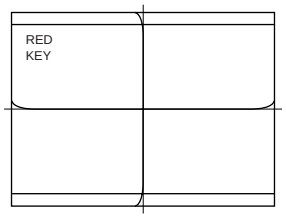
<PINCUSHION ADJUSTMENT>

1. Select “RED” with the 1 and 4 keys on the remote control while in rough adjustment mode.
2. Use the joystick and adjust so that the upper and lower horizontal lines change from a crooked or bent shape to straight lines. Somewhat of a slope is allowed at this time as shown below.



<KEY ADJUSTMENT>

1. Select “RED” with the 1 and 4 keys on the remote control and adjust any slope or inclination remaining from the previous step with the joystick so it becomes horizontal.



<Final Adjustment>

Shift to Fine adjustment mode with the 9 key on the remote control and just as when aligning with Green, first adjust the horizontal and vertical lines passing through the center point and then align with green after setting in vortex mode.

[BLUE REGISTRATION ADJUSTMENT]

<BLUE ADJUSTMENT>

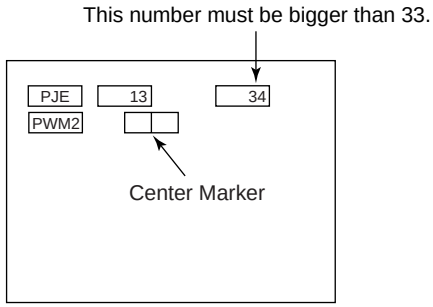
1. From here on, make the Blue adjustment just as was previously done for Red.

<Final Check>

1. After each of the Green, Red and Blue adjustments are completed, check that all the colors are displayed on the screen.
2. If the colors are off, set Fine Adjustment mode with the 9 key on the remote control and adjust the point that is deviating.
3. Store the new adjustment (offset) value on the remote control by pressing MUTING and ENTER.
4. Press the AUTO FOCUS button on the front panel.
   (The Offset value is now automatically stored.)
5. Now cancel the test mode and return to the normal screen. Press the AUTO FOCUS button and check that no error message appears.
   If an error message appears, once again select test mode and recheck.

3-11. AUTO REGISTRATION OFF SET ADJUSTMENT

1. Receive the monoscope signal.
2. Enter “ PJE SERVICE MODE ” .
3. Confirm “ OSDH ” is “ 35 ” . If necessary, adjust “ OSDH ” to obtain “ 35 ” .
4. Adjust “ PWM2 ” to obtain that Center Marker is on the center line of “ MONOSCOPE ” .
5. Receive the crosshatch signal.
6. Confirm that registration level is within spec.
   Press “ AUTO FOCUS ” button.
7. After finishing, quit service mode and confirm registration level is back to original condition.



3-12. AUTO REGISTRATION ERROR CODE LIST (PJED3.07)

[ERROR CODE LIST]

ERROR CODE	DISCRIPTION	NOTE
00	No Error	
10	Sensor Output Level Low	* Check wiring, beam position, sensor.
20	Sensor Output Level High	* Check OP-amp circuit.
30	Adjustment Loop Counter Overflow	0 : " CENT V " 1 : " CENT H " 2 : " SKEW V " 3 : " SKEW H "
40	Regi Data Overflow	Same as Loop Counter Overflow
50	Regi Data Overflow	Same as Loop Counter Overflow
60	Offset Overflow	Same as Loop Counter Overflow * Check beam position. If need, adjust " PWM2 " for H error, " V CENT (main) for V error. * " PWM2 " is usually 34 or 36.
70	Offset Overdrow	Same as Counter Overflow * Check beam position. If need, adjust " PWM2 " for H error, " V CENT (main) for V error.
80	Green " V SKEW " too tilt	* Adjust Green beam righ or left sensopr, or Green DY tilt.

* 60, 70 or 80 appears only in Service Mode.

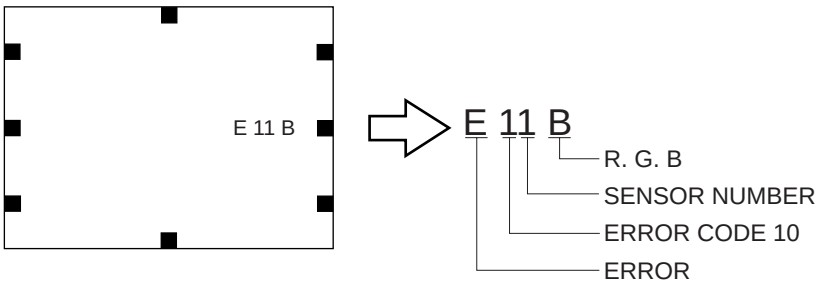
* In case of multiple error, last error is displayed.

(EXAMPLE)

11B : Left sensor Blue level low. (Left sensor circuit may be faulty.)

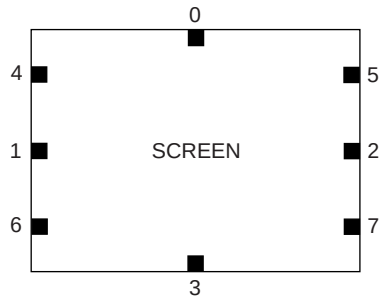
61R : " RED CENT H " offset overflow. (" PWM2 " may be required adjusting.)

• ERROR CODE SCREEN DISPLAY



* Error code will be displayed on center of screen for 3 seconds.

[SENSOR POSITION]



0 : UPPER SENSOR
1 : LEFT SENSOR
2 : RIGHT SENSOR
3 : LOWER SENSOR
4 : UL SENSOR
5 : UR SENSOR
6 : LL SENSOR
7 : LR SENSOR

SECTION 4
SAFETY RELATED ADJUSTMENTS

[D BOARD]

4-1. HV REGULATION CIRCUIT CHECK AND ADJUSTMENT

When replacing the following components marked with ◪ on the schematic diagram always check HV regulation, and if necessary re-adjust.

▣: R8196 , R8232
◪: IC8002, IC8007, IC8008
Q8022
D8042
C8018,C8064,C8066,C8070,C8074,C8076,
C8082,
R8093,R8095,R8096,R8105,R8108,R8112,
R8113,R8114,R8126,R8128,R8136,R8138,
R8139,R8154,R8157,R8168,R8173,R8174,
R8177,R8178,R8195,R8196,R8232
T8002(LOT),T8003(FBT)
HV BLOCK,D board

OPERATION CHECK

1. Connect a HV static voltmeter to the unconnected plug of the high-voltage block. (Fig 4-1)
2. Connect a 100k variable resistor , set to maximum value, to CN8008.
3. Input 120.0 ± 2.0 VAC and Power on the set.
4. Receive dot signal pattern and set the PICTURE and BRIGHTNESS settings to their minimum.
5. Gradually lower the value of the variable resistor and check that hold-down circuit operates at a static voltmeter reading of 31.0 ± 0.5kVdc when the raster disappears.

HV REGULATION ADJUSTMENT

1. Repart steps 1-5 as above.
2. Just at the point hold-down circuit begins to operate switch off the set.
3. Remove the VR connected across CN8008, and measure its resistance.
4. Solder resistor value, nearest to the mesured value, across CN8008.
5. Reconfirm operation check.

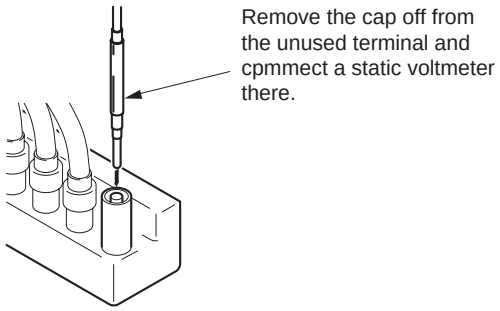


Fig. 4-1

4-2. HV HOLD DOWN CIRCUIT OPERATION CHECK AND ADJUSTMENT

When replacing the following components marked with ◪ on the schematic diagram always check hold-down voltage and if necessary re-adjust.

▣: R8194,R8231
◪: IC8006,IC8009,IC8010
Q8021,Q8031
D8026,D8032,D8035,D8050
C8018,
R8092,R8094,R8097,R8109,R8110,R8115,
R8117,R8118,R8121,R8123,R8125,R8129,
R8135,R8140,R8155,R8190,R8191,R8192,
R8193,R8194,R8198,R8231
T8002(LOT),T8003(FBT)
HV BLOCK,D board

OPERATION CHECK

1. Connect a HV static voltmeter to the unconnected plug of the high-voltage block. (Fig.4-1)
2. Input 120.0 ± 2.0 VAC and Power on the set.
3. Receive dot signal pattern and set the PICTURE and BRIGHTNESS settings to their minimum.
4. Check that the HV static voltmeter is reading 34.0 ± 0.5kVdc.

HV HOLD-DOWN ADJUSTMENT

1. Repart step ① as above.
2. Connect a 100k variable resistor , set to maximum value, to CN8008.
3. Power on the set.
4. Receive dot signal pattern.
5. Gradually lower the value of the variable resistor until the static voltmeter is reading 34.0 ± 0.5kVdc.
6. switch of the set.
7. Remove the VR connected across CN8008, and measure its value.
8. Solder a resistor value, nearest to the measured value, across CN8008.
9. Reconfirm opreation check.

[GBOARD]

4-3. +B MAX VO;TAGE CONFIRMATION

The following adjustments should always be performed when replacing IC6101.

1. Supply 130.0 ± 2.0VAC to variable autotransformer.
2. Receive dot signal pattern and set the PICTURE and BRIGHTNESS settings to their minimum.
3. Confirm the voltage of TP +B 135V is less than 137.0Vdc.
4. If step 4 not satisfied , replace IC6101 and repead above steps. **(Fig.4-2)**

4-4. +B OVP CONFIRMATION

1. Connect a voltmeter to TP. OVP and ground.
2. Input 120.0 ± 2.0 VAC and Power on the set.
3. Receive dot signal pattern and set the PICTURE and BRIGHTNESS settings to their minimum.
4. Supply 137.0 ± 0.5 Vdc and 151.0 ± 0.5 Vdc to TP. OVP.
5. Check OVP works properly when the voltage of TP. OVP is betwen 137.0 ~ 151.0V. **(Fig.4-2)**

SECTION 5
CIRCUIT ADJUSTMENTS

[MCD MODE]

5-1. TV INPUT SUB CONTRAST ADJUSTMENT (MCD1-SCON)

1. Receive the color-bar signal.
2. Set to service mode.
3. Connect an oscilloscope between pin ② of CN511 (A board) and ground.
4. Select " MCD1-SCON ", and adjust so that the wave from level is 0.525 ± 0.015Vp-p.
5. Write the data into memory.
   MUTING → ENTER

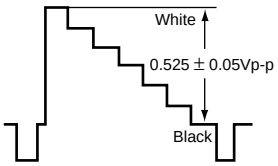


Fig. 5-1

5-2. VIDEO INPUT SUB CONTRAST ADJUSTMENT (MCD3-SCON)

1. VIDEO 1 input the color-bar signal.
2. Set to service mode.
3. Connect an oscilloscope between pin ② of CN511 (A board) and ground.
4. Select " MCD3-SCON ", and adjust so that the wave from level is 0.525 ± 0.015Vp-p.
5. Write the data into memory.
   MUTING → ENTER

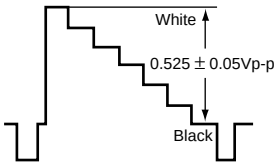


Fig. 5-2

5-3. P & P SUB CONTRAST ADJUSTMENT (MCD2-SCON)

1. Receive the signal.
   TV terminal (main) : color-bar signal
   VIDEO terminal (sub) : no signal
2. Set to P & P mode, set to service mode.
3. Connect an oscilloscope between pin ⑳ of CN513 (A board) and ground.
4. Select " MCD2-SCON ", and adjust so that the wave from level is 0.525 ± 0.015Vp-p.
5. Write the data into memory.
   MUTING → ENTER

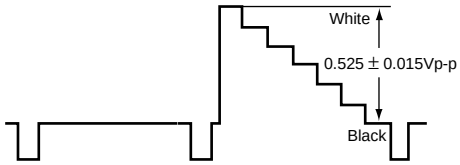


Fig. 5-3

5-4. P & P SUB CONTRAST ADJUSTMENT (MCD4-SCON)

1. Receive the signal.
   TV terminal (sub) : no signal
   VIDEO terminal (main) : color-bar signal
2. Set to P & P mode, and set to service mode.
3. Connect an oscilloscope between pin ⑳ of CN513 (A board) and ground.
4. Select " MCD4-SCON ", and adjust so that the wave from level is 0.525 ± 0.015Vp-p.
5. Write the data into memory.
   MUTING → ENTER

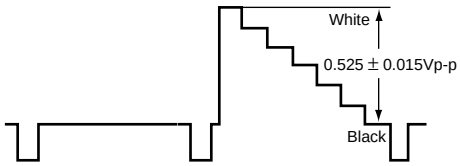


Fig. 5-4

5-5. SUB-HUE AND SUB-COLOR ADJUSTMENT (MCD1-SHUE, SCOL)

1. Receive the color-bar signal.
2. PICTURE : maximum
   COLOR : center
   BRIGHTNESS : center
   TRINITONE : medium
   SERVICE DATA MCP1-SBRT : 25
   MCP1-SHUE : 7
   MCP1-SCOL : 7
3. Set to service mode.
4. Connect an oscilloscope between pin ⑤ of CN503 (A board) connecter and ground.
5. Select " MCD 1-SHUE, SCOL ", and adjust them to have VB2 = VB3 and VB1 = VB4 in the waveform levels.
6. Write the data into memory.
   MUTING → ENTER

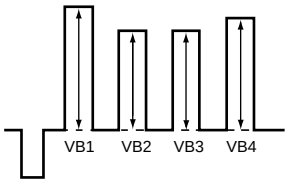


Fig. 5-5

5-6. VIDEO INPUT SUB-HUE AND SUB-COLOR ADJUSTMENT (MCD3-SHUE, SCOL)

1. VIDEO input the color-bar signal.
2. PICTURE : maximum
   COLOR : center
   BRIGHTNESS : center
   TRINITONE : medium
   SERVICE DATA MCP1-SBRT : 25
   MCP1-SHUE : 7
   MCP1-SCOL : 7
3. Set to service mode.
4. Connect an oscilloscope between pin ⑤ of CN503 (A board) connecter and ground.
5. Select " MCD 3-SHUE, SCOL ", and adjust them to have VB2 = VB3 and VB1 = VB4 in the waveform levels.
6. Write the data into memory.
   MUTING → ENTER

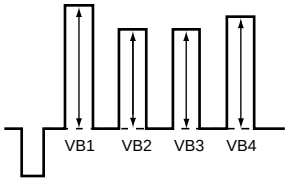


Fig. 5-6

5-7. P & P SUB-HUE AND SUB-COLOR ADJUSTMENT (MCD2-SHUE, SCOL)

1. Receive the signal.
   TV terminal (main) : color-bar signal
   VIDEO terminal (sub) : no signal
2. PICTURE : maximum
   COLOR : center
   BRIGHTNESS : center
   TRINITONE : medium
   SERVICE DATA MCP1-SBRT : 25
   MCP1-SHUE : 7
   MCP1-SCOL : 7
3. Set to P & P mode, set to service mode.
4. Connect an oscilloscope between pin ⑤ of CN503 (A board) connecter and ground.
5. Select " MCD 2-SHUE, SCOL ", and adjust them to have VB2 = VB3 and VB1 = VB4 in the waveform levels.
6. Write the data into memory.
   MUTING → ENTER

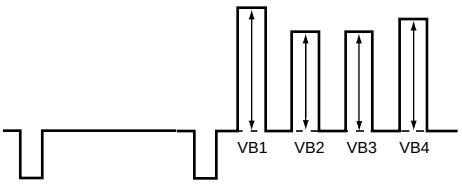


Fig. 5-7

5-8. P & P SUB-HUE AND SUB-COLOR ADJUSTMENT (MCD4-SHUE, SCOL)

1. Receive the signal.
   TV terminal (main) : no signal
   VIDEO terminal (sub) : color-bar signal
2. PICTURE : maximum
   COLOR : center
   BRIGHTNESS : center
   TRINITONE : medium
   SERVICE DATA MCP1-SBRT : 25
   MCP1-SHUE : 7
   MCP1-SCOL : 7
3. Set to P & P mode, set to service mode.
4. Connect an oscilloscope between pin ⑤ of CN503 (A board) connecter and ground.
5. Select " MCD 4-SHUE, SCOL ", and adjust them to have VB2 = VB3 and VB1 = VB4 in the waveform levels.
6. Write the data into memory.
   MUTING → ENTER

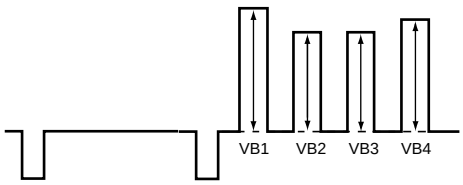


Fig. 5-8

[SCD MODE]

5-9. P & P SUB CONTRAST ADJUSTMENT (SCD1-SCON)

1. Receive the signal.
   TV terminal (sub) : color-bar signal
   VIDEO terminal (main) : no signal
2. Set to P & P mode, and set to service mode.
3. Connect an oscilloscope between pin ⑳ of CN513 (A board) and ground.
4. Select " SCD1-SCON ", and adjust so that the wave from level is 0.525 ± 0.015Vp-p.
5. Write the data into memory.
   MUTING → ENTER

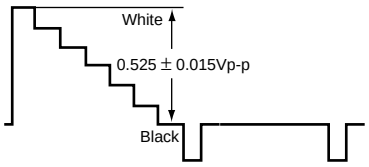


Fig. 5-9

5-10. P & P SUB CONTRAST ADJUSTMENT (SCD2-SCON)

1. Receive the signal.
   TV terminal (main) : no signal
   VIDEO terminal (sub) : color-bar signal
2. Set to P & P mode, and set to service mode.
3. Connect an oscilloscope between pin ⑳ of CN513 (A board) and ground.
4. Select " SCD2-SCON ", and adjust so that the wave from level is 0.525 ± 0.015Vp-p.
5. Write the data into memory.
   MUTING → ENTER

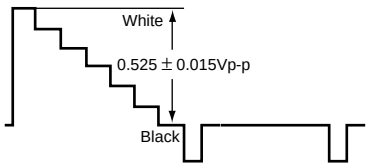


Fig. 5-10

5-11. P&P SUB-HUE AND SUB-COLOR ADJUSTMENT (SCD1-HUE, SCOL)

1. Receive the color-bar signal.
2. PICTURE : maximum
   COLOR : center
   BRIGHTNESS : center
   TRINITONE : medium
   SERVICE DATA MCP1-SBRT : 25
   MCP1-SHUE : 7
   MCP1-SCOL : 7
3. Set to service mode.
4. Connect an oscilloscope between pin ⑤ of CN503 (A board) connecter and ground.
5. Select " SCD1-SHUE, SCOL ", and adjust them to have VB2 = VB3 and VB1 = VB4 in the waveform levels.
6. Write the data into memory.
   MUTING → ENTER

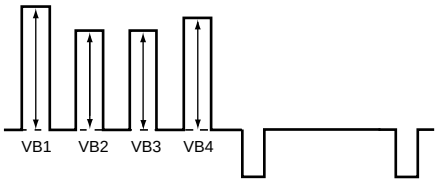


Fig. 5-11

5-12. P&P SUB-HUE AND SUB-COLOR ADJUSTMENT (SCD2-HUE, SCOL)

1. Receive the color-bar signal.
2. PICTURE : maximum
   COLOR : center
   BRIGHTNESS : center
   TRINITONE : medium
   SERVICE DATA MCP1-SBRT : 25
   MCP1-SHUE : 7
   MCP1-SCOL : 7
3. Set to service mode.
4. Connect an oscilloscope between pin ⑤ of CN503 (A board) connecter and ground.
5. Select " SCD2-HUE, SCOL ", and adjust them to have VB2 = VB3 and VB1 = VB4 in the waveform levels.
6. Write the data into memory.
   MUTING → ENTER

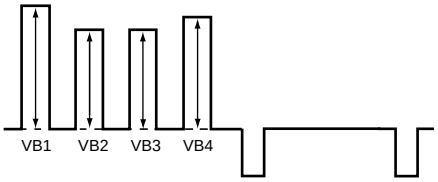


Fig. 5-12

[MCP MODE]

5-13. SUB CONTRAST ADJUSTMENT (MCP1-SCON)

1. Receive the color-bar signal.
2. PICTURE : maximum
   COLOR : minimum
   BRIGHTNESS : center
   TRINITONE : medium
3. Set to service mode.
4. Connect an oscilloscope between pin ③ of CN503 (A board) and ground.
5. Select " MCP1-SCON ", and adjust so that the wave from level is 1.85 ± 0.03Vp-p.
6. Write the data into memory.
   MUTING → ENTER

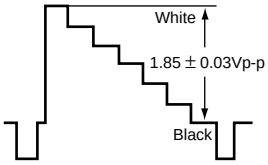


Fig. 5-13

5-14. DISPLAY POSITION ADJUSTMENT (OSD-HPOS)

1. Receive the monoscope signal.
2. Set to Service mode.
3. Select " OSD-HPOS ", and adjust so that the left edge of MENU is as shown to the spec.
4. Write the data into memory.
   MUTING → ENTER

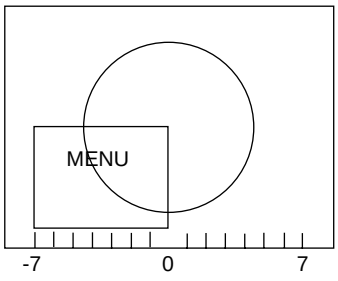


Fig. 5-14

5-15. CAPTION VISION POSITION ADJUSTMENT (MCCD-CCDH)

1. Receive signal with CAPTION VISION data.
2. Set to Service mode.
3. Display TEXT BOX.
4. Select " MCCD-CCDH ", and adjust data so that A≒B .
5. Write the data into memory.
   MUTING → ENTER

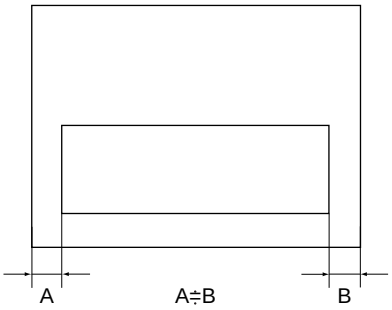


Fig. 5-15

5-16. MID DISPLAY POSITION ADJUSTMENT (MID-HPOS)

1. Display 1/9 size PIP.
2. Set to Service mode.
3. Select " MID-OSDH ", and adjust data so that A≒B .
4. Write the data into memory.
   MUTING → ENTER

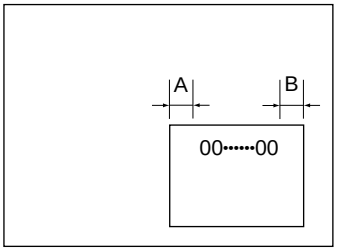
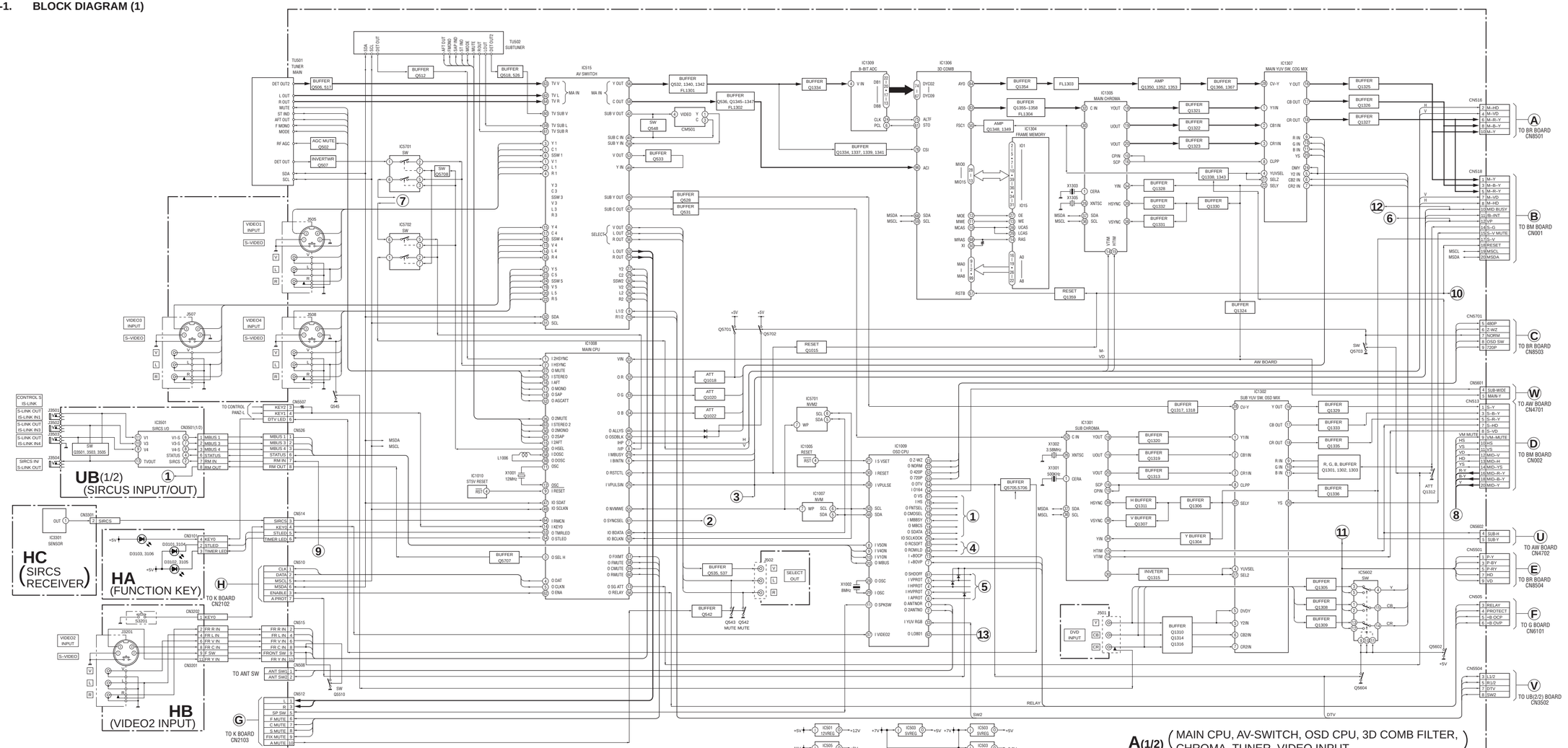


Fig. 5-16

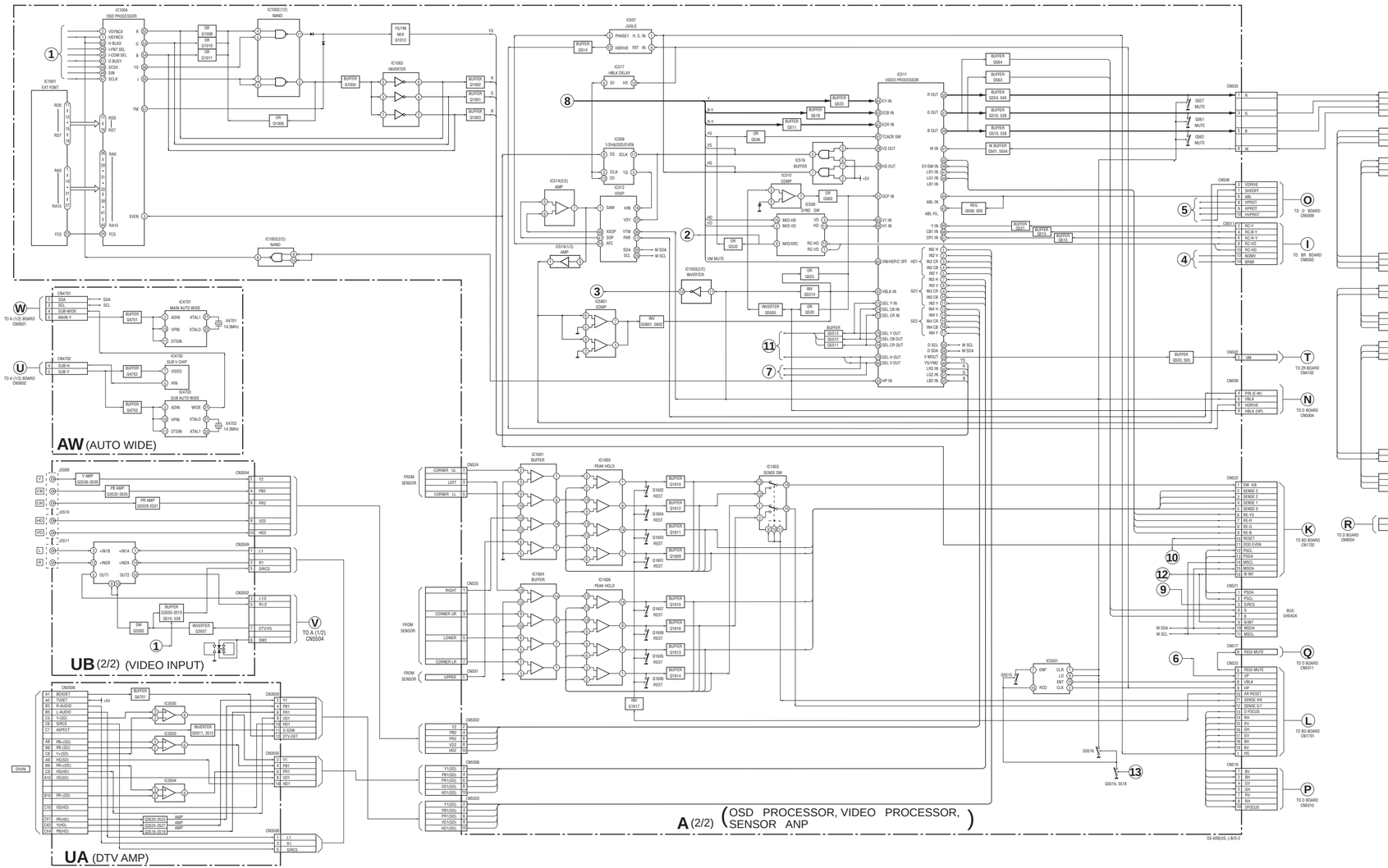
MEMO

SECTION 6
DIAGRAMS

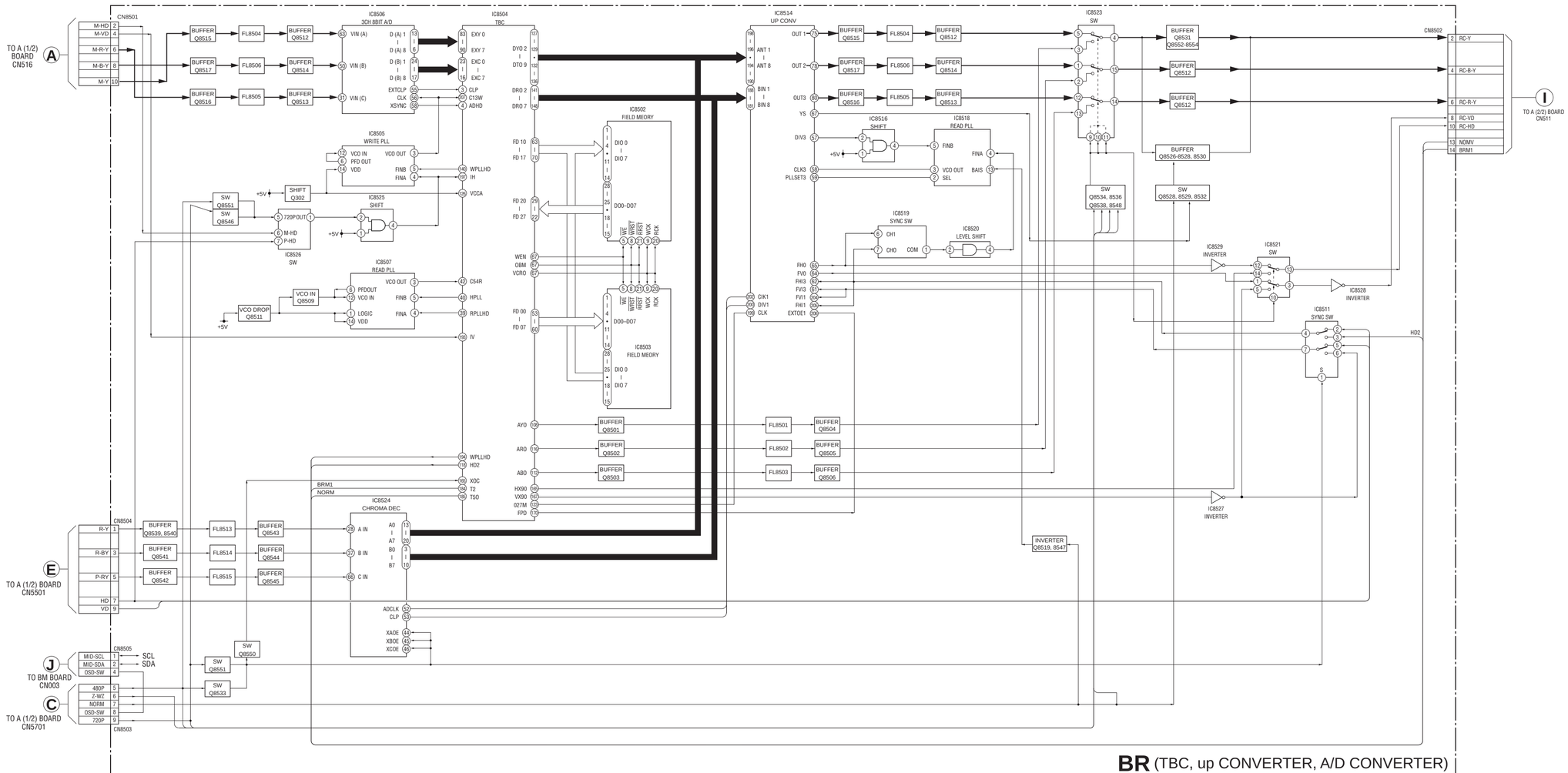
6-1. BLOCK DIAGRAM (1)



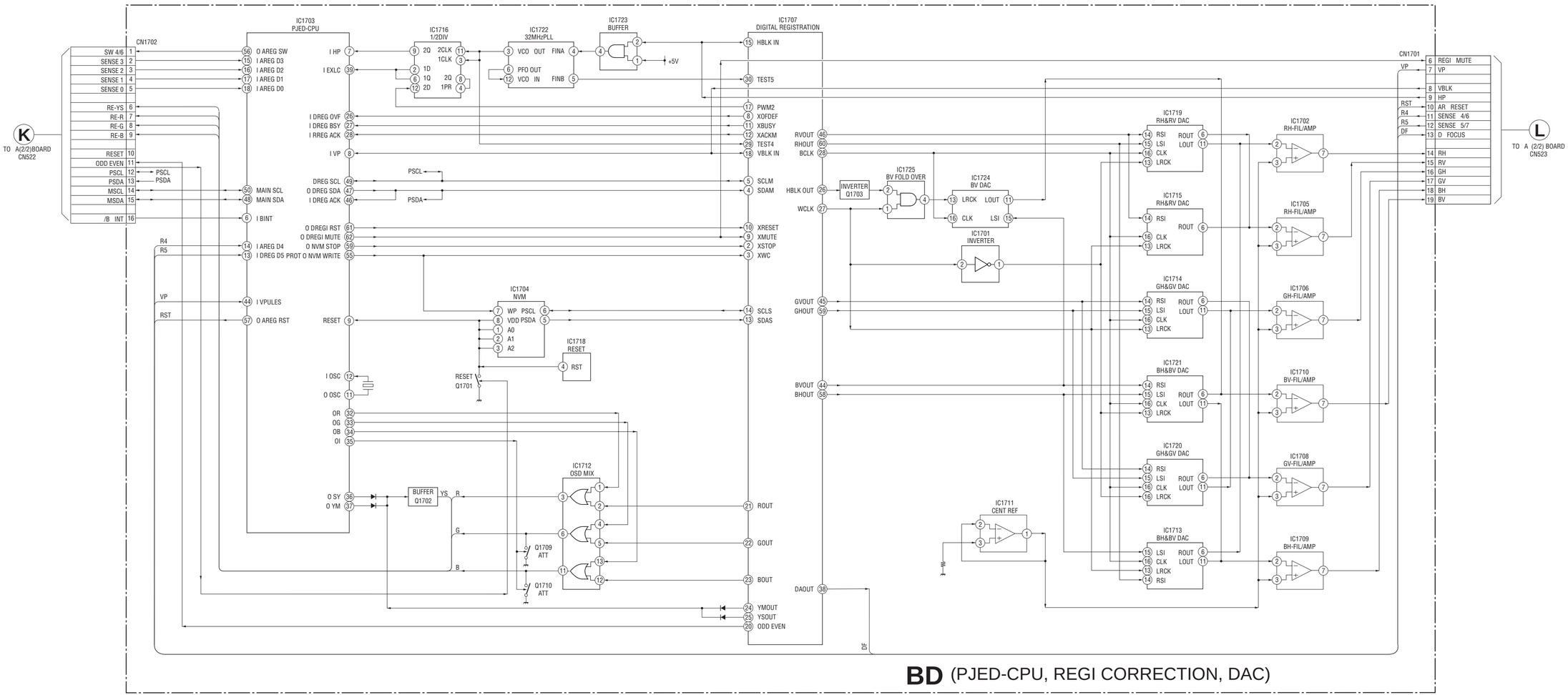
6-2. BLOCK DIAGRAM (2)



6-3. BLOCK DIAGRAM



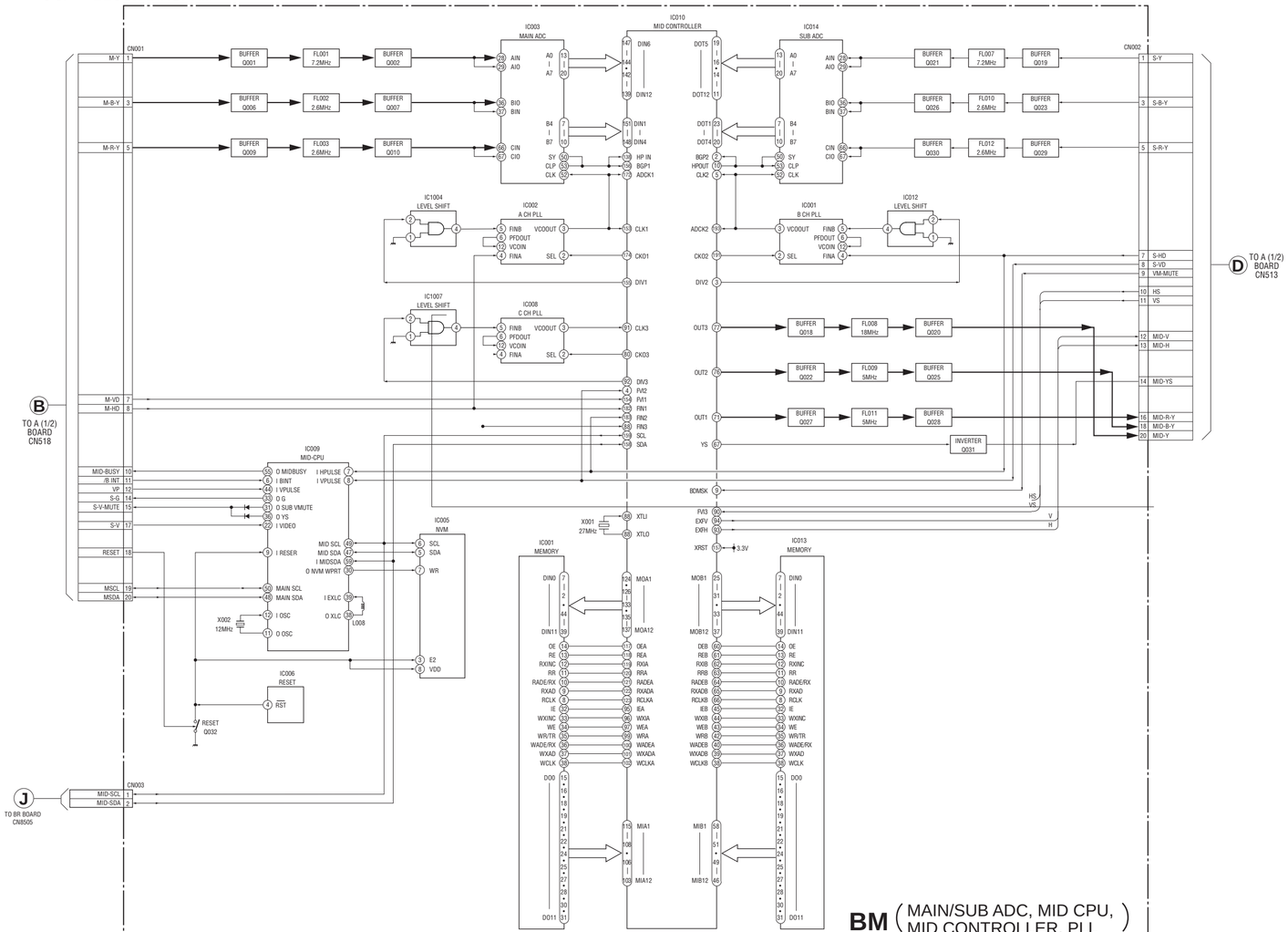
6-4. BLOCK DIAGRAM (4)



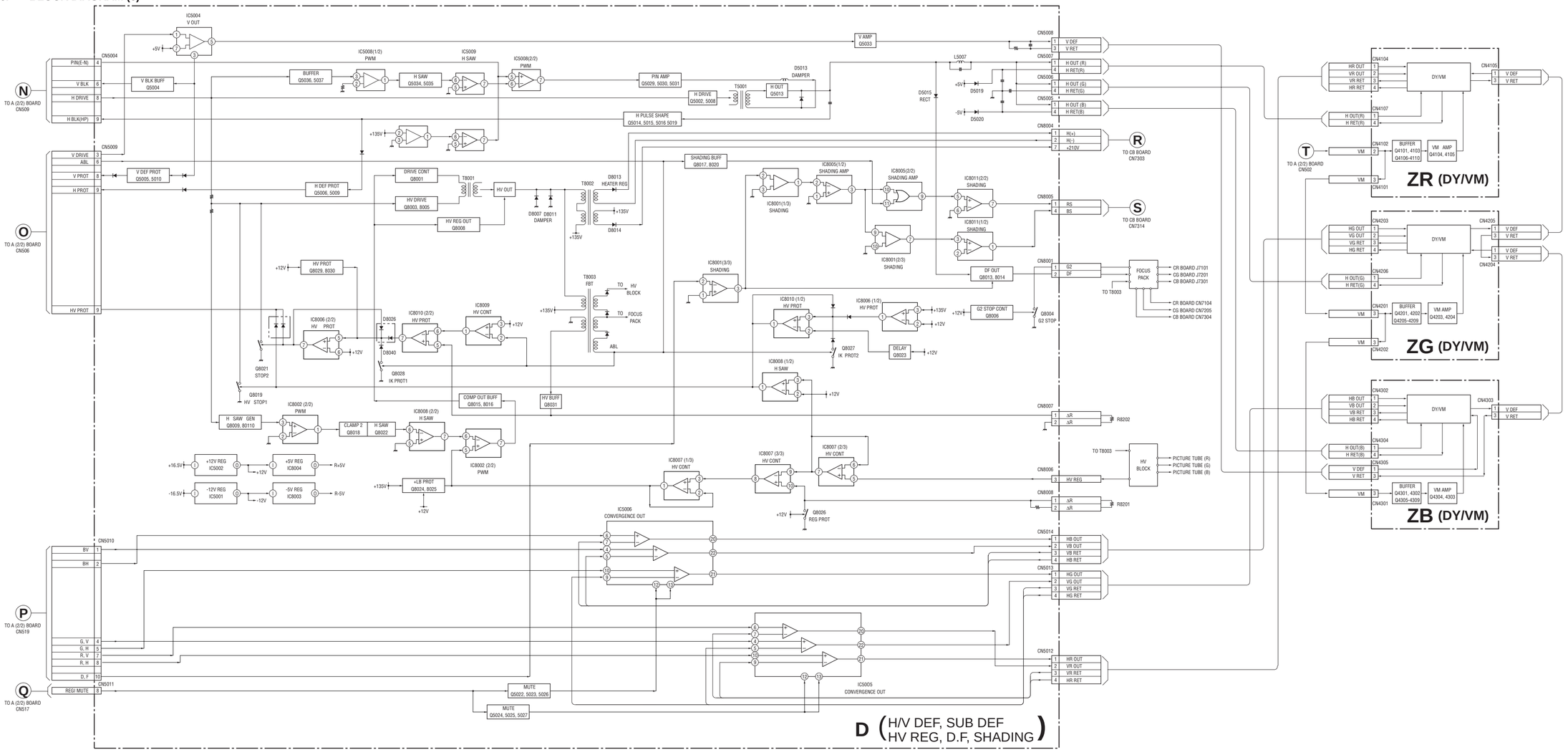
BD (PJED-CPU, REGI CORRECTION, DAC)

B-SS609(US..)-B/D-4

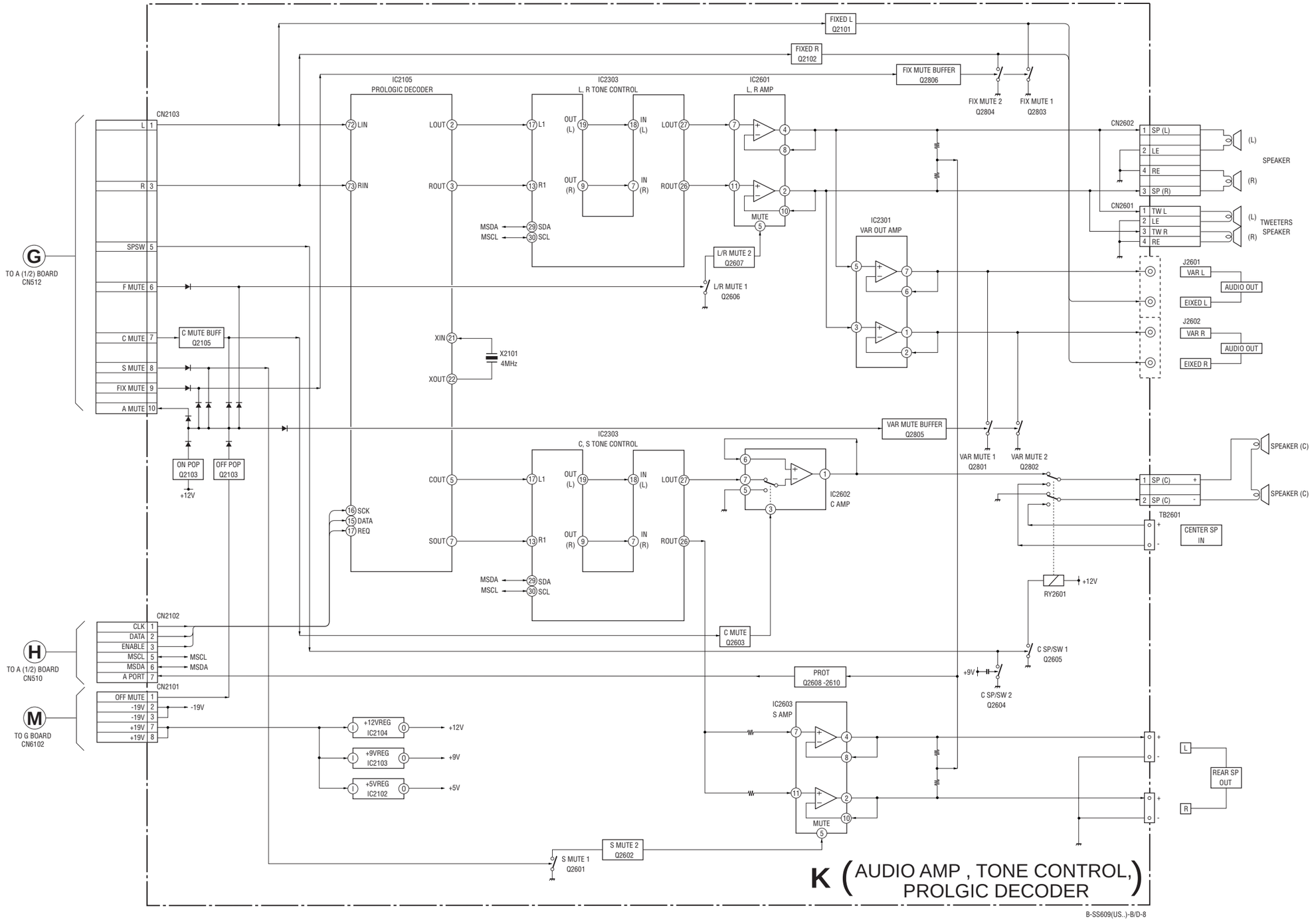
6-5. BLOCK DIAGRAM



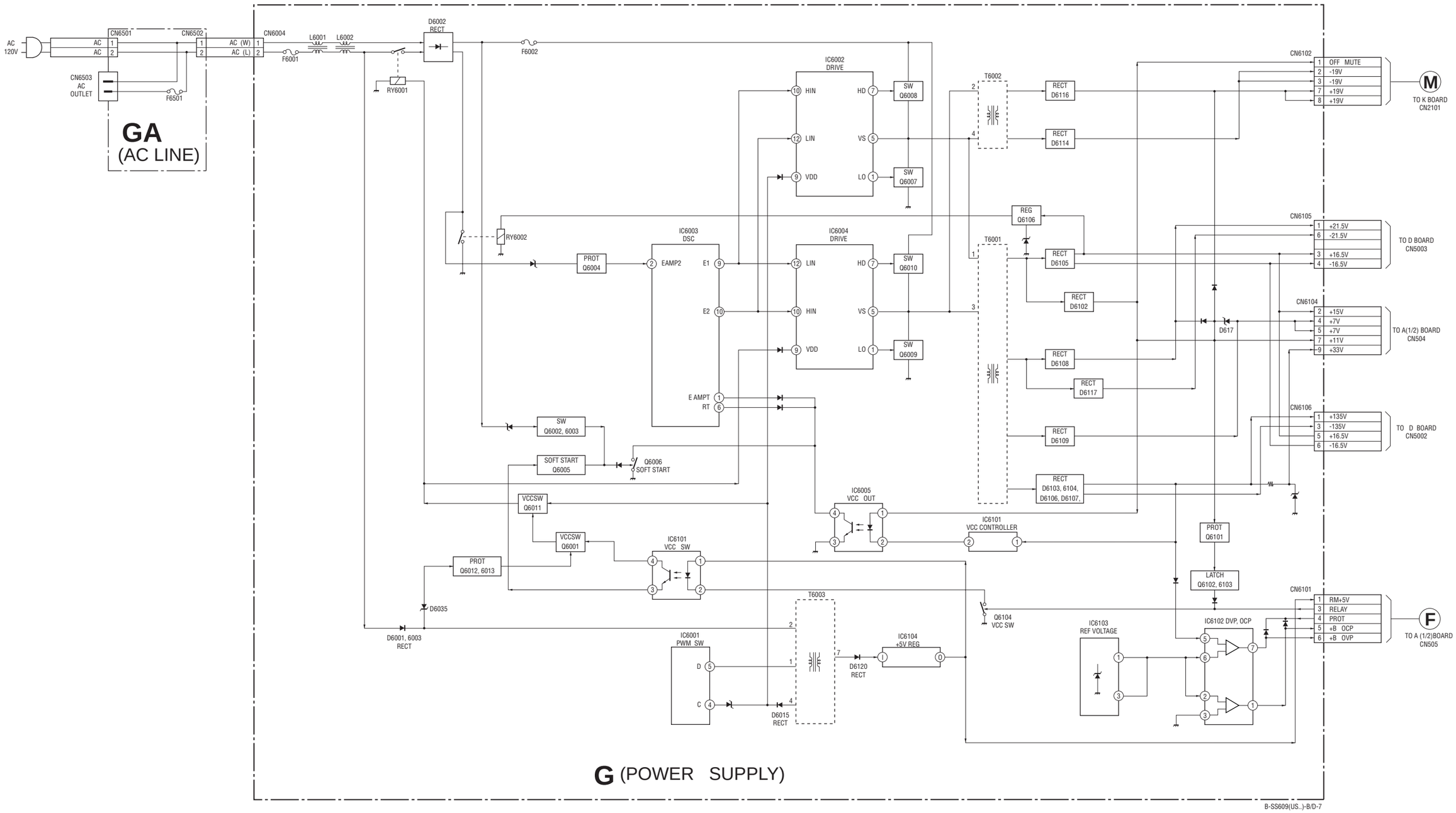
6-6. BLOCK DIAGRAM (6)



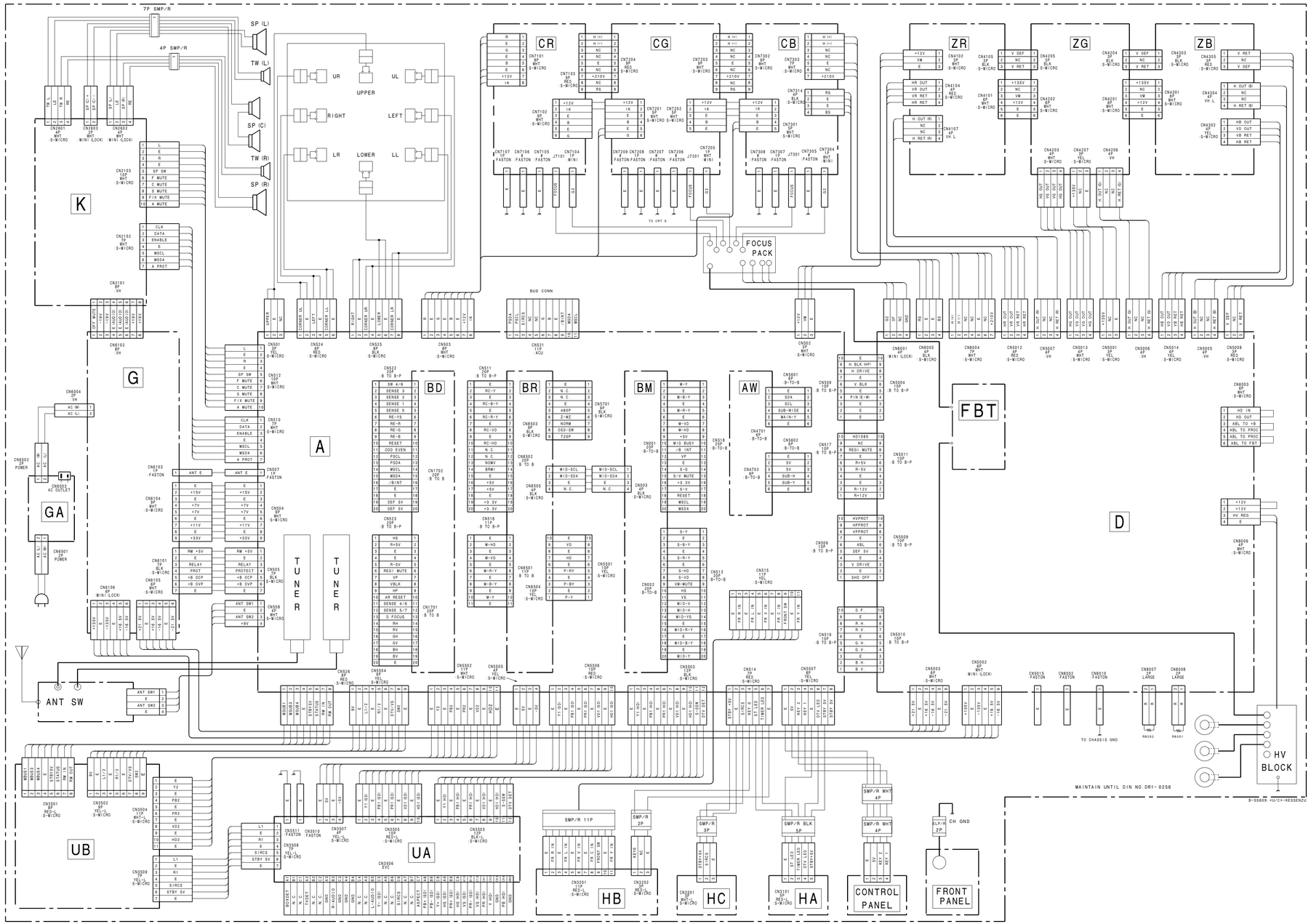
6-7. BLOCK DIAGRAM (7)



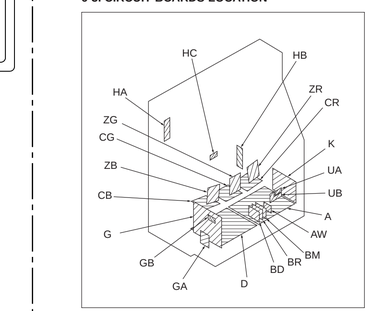
6-8. BLOCK DIAGRAM (8)



6-2. FRAME SCHEMATIC DIAGRAM



6-3. CIRCUIT BOARDS LOCATION



6-4. PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

Note:
- Capacitors without voltage indication are all 50V.
- All resistors are in ohms.
  k =1000 , M =1000k
- Indication of resistance, which dose not have one for rating electrical power, is as follows.

Pitch : 5mm
Rating electrical power : $\frac{1}{4}$ W

- : nonflammable resistor.
- : fusible resistor.
- △ : internal component.
- : panel designation and adjustment for repair.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- # : not mounted.
- : earth-chassis.
- The components identified by ⋈ in this basic schematic diagram have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation.
  Should replacement be required, replace only with the value originally used.
- When replacing components identified by ◪ , make the necessary adjustments indicated. If results do not meet the specified value, change the component identified by ⋈ and repeat the adjustment until the specified value is achieved. (Refer to RG14,R561 and CS14 adjustment on the xx – xx.)
- When replacing the part in below table, be sure to perform the related adjustment.

Part replaced (◪)	Adjustment (⋈)
IC8002,IC8007,IC8008,Q8022,D8042,D8018,C8064,C8066,C8070,C8082,C8093,R8095,R8095,R8096,R8105,R8108,R8112R8113,R8114,R8126,R8128,R8136,R8138 R8139,R8154,R8157,R8168,R8173,R8174R8177,R8178, R8195,R8196,R8201,T8002 T8003, HV BLOCK,D BOARD	HV Reagurator (R8196,R8232)
IC8000,IC8009,IC9010,Q8021,Q8031,C8018,D8026,D8032,D8035, D8050,R8092,R8094,R8097,R8109,R8110,R8115,R8117,R8118, R8121,R8123,R8125,R8129,R8135,R8140,R8155,R8190, R8191,R8192,R8193,R8194,R8198,R8202,T8002,T8003, HV BLOCK,D BOARD	HV HOLD-DOWN (R8194, R8231)

- As to the voltage value shown by the semiconductors on the Shematic Diagram, see the another list
- Readings are taken with a color-bar signal input.
- Readings are taken with a 10M digital m ultimeter.
- Voltages are dc with respect to ground unless otherwise noted.
- Voltage variations may be noted due to normal production tolerances.
- All voltages are in V.
  = : Measurement impossibility.
- Circled numbers are waveform references.
- : B+ bus.
- : B– bus.
- : signal path.(RF)

Reference information

RESISTOR	: RN	METAL FILM
	: RC	SOLID
	: FPRD	NONFLAMMABLE CARBON
	: FUSE	NONFLAMMABLE FUSIBLE
	: RW	NONFLAMMABLE WIREWOUND
	: RS	NONFLAMMABLE METAL OXIDE
	: RB	NONFLAMMABLE CEMENT
	: ※	ADJUSTMENT RESISTOR
COIL	: LF-SL	MICRO INDUCTOR
CAPACITOR	: TA	TANTALUM
	: PS	STYROL
	: PP	POLYPROPYLENE
	: PT	MYLAR
	: MPS	METALIZED POLYESTER
	: MPP	METALIZED POLYPROPYLENE
	: ALB	BIPOLAR
	: ALT	HIGH TEMPERATURE
	: ALR	HIGH RIPPLE

Note: The symbol ⋈ display is on the component side.

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

The symbol ⋈ indicate fast operating fuse. Replace only with fuse of same rating as maked.

Note: Les composants identifiés par un tramé et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Le symbole ⋈ indique une fusible a action rapide. Doit etre remplacee par une fusible de meme yaleur, comme maque.

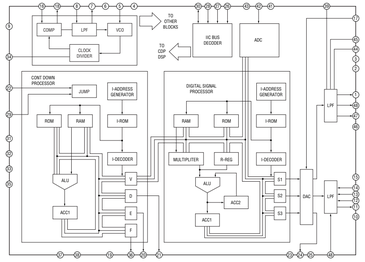
Terminal name of semiconductors in silk screen printed circuit (*)

	Device	Printed symbol	Terminal name	Circuit
①	Transistor	T	Collector / Base / Emitter	
②	Transistor	—	Collector / Base / Emitter	
③	Diode	⊐	Cathode / Anode	
④	Diode	T	Cathode / Anode (NC)	
⑤	Diode	—	Cathode / Anode (NC)	
⑥	Diode	T	Common / Anode / Cathode	
⑦	Diode	—	Common / Anode / Cathode	
⑧	Diode	T	Common / Anode / Anode	
⑨	Diode	—	Common / Anode / Anode	
⑩	Diode	T	Common / Cathode / Cathode	
⑪	Diode	—	Common / Cathode / Cathode	
⑫	Diode	▌	Anode / Cathode / Anode	
⑬	Transistor (FET)	▌	Drain / Source / Gate	
⑭	Transistor (FET)	▌	Drain / Source / Gate	
⑮	Transistor (FET)	▌	□ Source / □ Drain / □ Gate	
—	Discrete semiconductor			

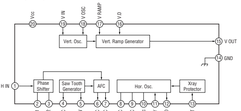
(Chip semiconductors that are not actually used are included.)

Ver.1.5

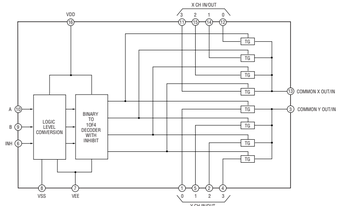
A (1/4) BOARD : IC512 CXD2018Q



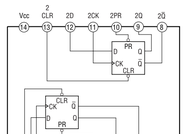
A (1/4) BOARD : IC507 LA7856



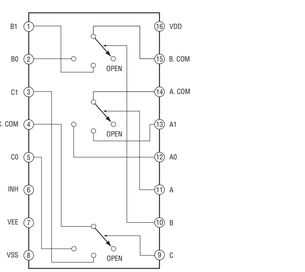
A (1/4) BOARD : IC509 MC74HC4052EL



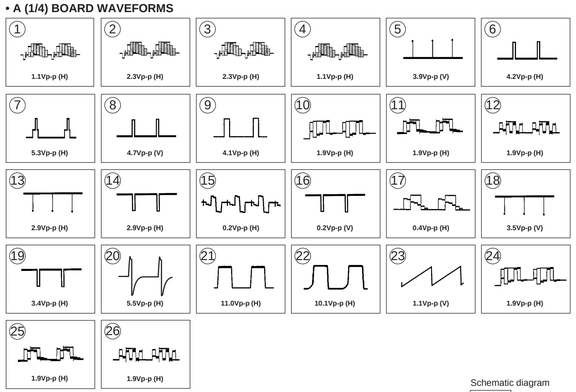
A (1/4) BOARD : IC508 MC74HC74AFEL



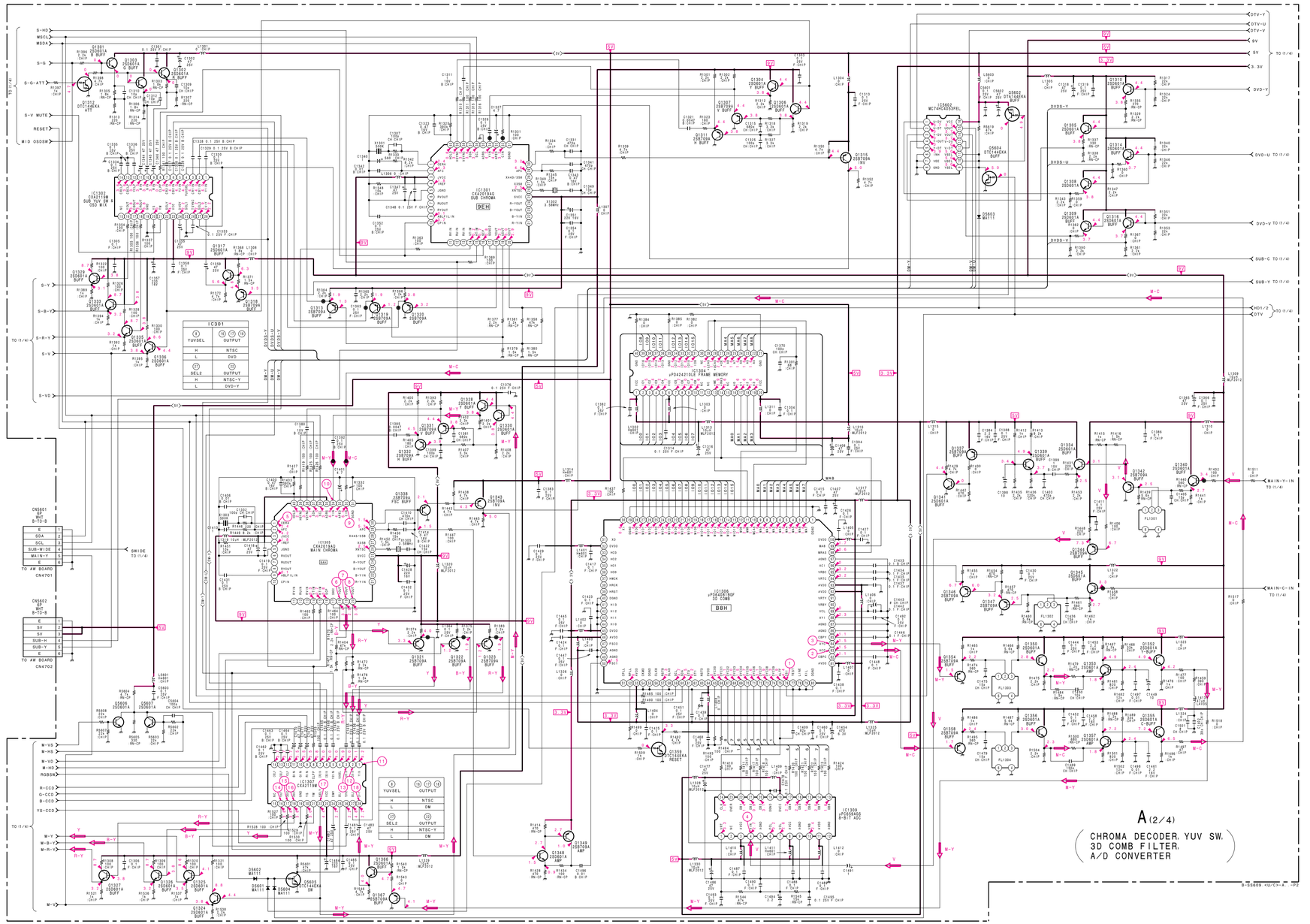
A (1/4) BOARD : IC517 TC74HC4538AF-TP2



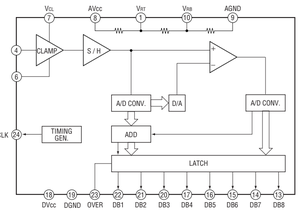
• A (1/4) BOARD WAVEFORMS



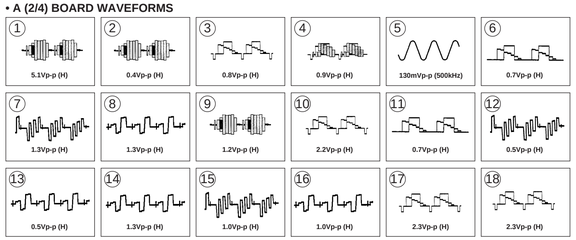
Schematic diagram
A (1/4) board ➡



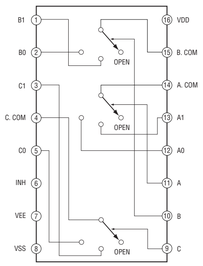
A (2/4) BOARD : IC1309 µPC659AGS

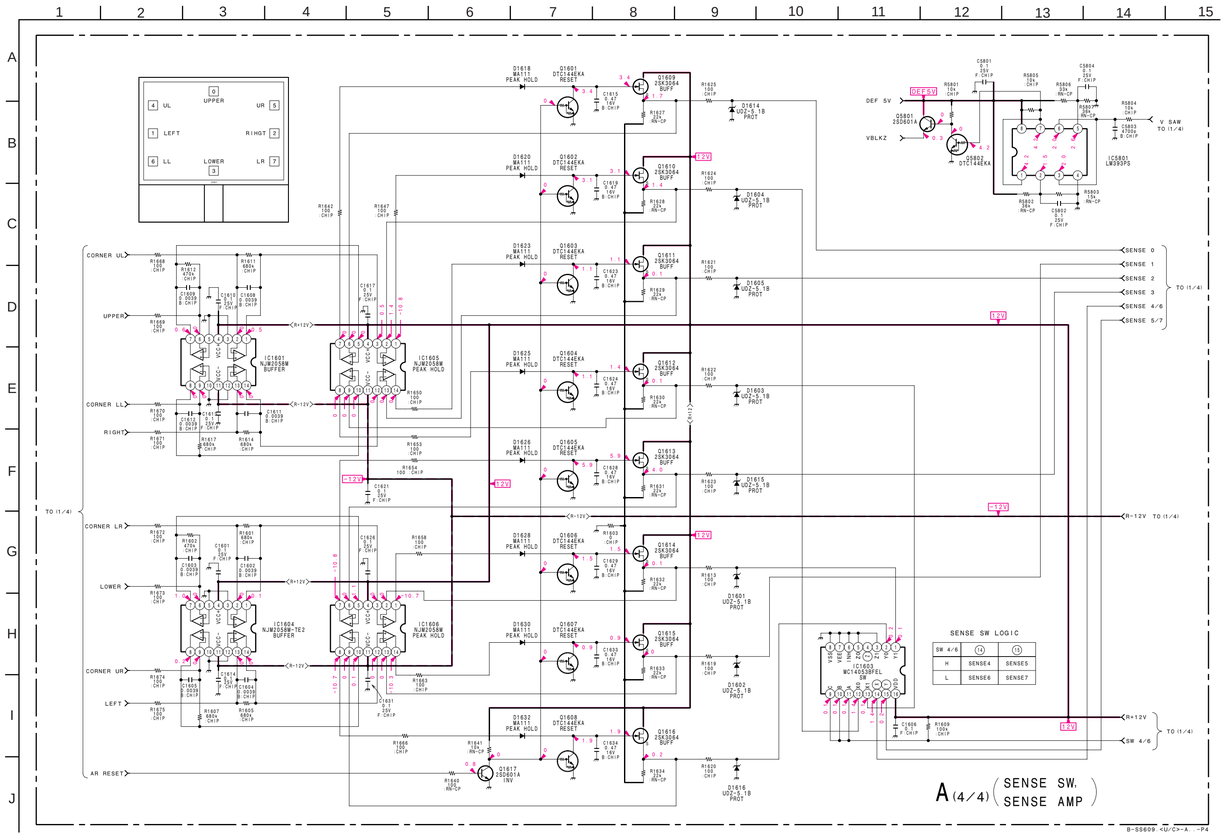


• A (2/4) BOARD WAVEFORMS



A (4/4) BOARD : IC1603 MC14053BFEL





Schematic diagram
A (2/4) board

Schematic diagram
A (4/4) board

A BOARD

DIODE

	L	R	✳
D501		D-2	③
D502		M-1	③
D503		B-4	③
D504		L-3	③
D505		M-3	③
D506		E-3	③
D507		D-3	③
D508		D-3	③
D509		D-3	③
D510		D-3	③
D511		K-4	③
D512		B-4	③
D513		K-3	③
D514		B-4	③
D515	A-6		③
D516	B-6		③
D517	A-6		③
D518		J-9	③
D519		J-9	③
D520		J-9	③
D521	D-10		③
D523	H-10		③
D524		I-9	③
D525		I-9	③
D528		I-9	③
D529		I-9	③
D530		J-9	③
D531		J-9	③
D532		H-9	③
D534		J-9	③
D536	H-10		③
D537		H-9	③
D539		J-9	③
D540		K-10	③
D541		L-10	③
D542	H-10		③
D543		H-9	③
D545		I-9	③
D547		K-9	③
D550		I-9	③
D552		I-9	③
D553		I-9	③
D555		K-9	③
D556		K-9	③
D557		K-9	③
D558	H-10		③
D559		L-10	③
D560		K-10	③
D1001		H-4	③
D1002		H-4	③
D1005		I-4	③
D1006		I-3	③
D1007		I-3	③
D1008		I-5	③
D1009		I-5	③
D1601		B-3	③
D1602		C-3	③
D1603		D-3	③
D1604		B-3	③
D1605		B-3	③
D1614		A-3	③
D1615		B-3	③
D1616		C-3	③
D1618		A-2	③
D1620		A-2	③
D1623		B-2	③
D1625		B-2	③
D1626		B-2	③
D1628		B-2	③
D1630		B-2	③
D1632		C-2	③
D5501		E-1	③
D5502		E-2	③
D5503		L-10	③
D5504		L-10	③
D5505		L-10	③
D5506		M-3	③
D5507		M-3	③
D5508		M-3	③
D5509		M-3	③
D5510		J-1	③
D5511		J-1	③
D5512		K-1	③
D5513		L-1	③
D5514		L-10	③
D5515		M-5	③
D5516		M-5	③
D5517		M-5	③
D5518		M-4	③
D5519		G-10	③
D5520		G-11	③
D5601	E-1		③
D5602	E-1		③
D5603	F-10		③
D5604		E-1	③
D5702		I-1	③
D5703		I-1	③
D5704		I-1	③
D5705		I-1	③

TRANSISTOR

	L	R	✳
Q501	E-9		②
Q502		M-4	①
Q503		D-1	①
Q504		C-2	①
Q505		C-1	①
Q506		M-3	①
Q507		L-3	①
Q508		D-3	①
Q509		E-4	①
Q510		D-2	①
Q511		D-3	①
Q512		K-3	①
Q513		E-4	①
Q514		B-4	①
Q515		D-4	①
Q516		D-2	①
Q517		M-3	①
Q518		L-4	①
Q519		D-3	①
Q520		E-3	①
Q521		D-4	①
Q522		B-4	①
Q523		D-3	①
Q524		E-2	①
Q525		E-3	①
Q526		L-4	①
Q527		D-1	①
Q528	L-4		②
Q530	D-7		②
Q531	C-4		②
Q532	K-4		②
Q533	L-4		②
Q535		L-9	①
Q536	K-4		②
Q537		L-9	①
Q538		D-2	①
Q539		D-2	①
Q540		E-2	①
Q542		L-10	①
Q543		L-10	①
Q544		L-10	①
Q545		K-9	①
Q546	D-7		②
Q547	H-10		②
Q548		L-9	①
Q560		E-3	①
Q561		D-1	①
Q562		D-1	①
Q563	C-9		②
Q564	D-9		②
Q1001		G-4	①
Q1002	G-7		②
Q1003		G-4	①
Q1004		G-4	①
Q1006		H-4	①
Q1008		H-4	①
Q1010		H-4	①
Q1011		H-4	①
Q1012		G-5	①
Q1015	I-6		②
Q1018		G-5	①
Q1020		G-5	①
Q1022		G-5	①
Q1301	D-4		②
Q1302	D-5		②
Q1303	D-5		②
Q1304	F-5		②
Q1305		G-9	①
Q1306	F-5		②
Q1307	F-5		②
Q1308		G-8	①
Q1309		G-8	①
Q1310		G-7	①
Q1311	F-5		②
Q1312		E-4	①
Q1313		F-7	①
Q1314		G-7	①
Q1315	D-5		②
Q1316		G-1	①
Q1317		F-8	①
Q1318		F-8	①
Q1319		F-7	①
Q1320		F-7	①
Q1321		F-9	①
Q1322		F-9	①
Q1323		F-9	①
Q1324	D-2		②
Q1325		E-1	②
Q1326		E-1	②
Q1327		E-1	②
Q1328		F-3	①
Q1329		E-4	①
Q1330		F-3	②
Q1331		F-3	②
Q1332		F-3	②
Q1333		D-4	②
Q1334		I-4	②
Q1335		E-4	②
Q1336		E-3	②
Q1337		I-4	②
Q1338		F-3	②
Q1339		I-4	②
Q1340		J-7	①
Q1341		I-4	②
Q1342		J-7	①
Q1343	D-2		②
Q1344		I-8	①
Q1345		I-4	②
Q1346		I-4	②
Q1347		J-7	①
Q1348		G-8	①
Q1349		H-8	①
Q1350		J-6	①
Q1352	I-5		②
Q1353	I-5		②
Q1354		J-6	①
Q1355		I-4	②
Q1356		J-7	①
Q1357	I-5		②
Q1358		I-7	①
Q1359	H-3		②
Q1366		E-10	①
Q1367		F-10	①
Q1601		A-2	①
Q1602		B-2	①
Q1603		B-2	①
Q1604		B-2	①
Q1605		B-2	①
Q1606		B-2	①
Q1607		C-2	①
Q1608		C-2	①
Q1609	A-9		②
Q1610	A-9		②
Q1611	B-9		②
Q1612	B-9		②
Q1613	B-9		②
Q1614	B-9		②
Q1615	C-9		②
Q1616	C-9		②
Q1617		A-3	①
Q5501		B-3	①
Q5502		B-3	①
Q5503		C-3	①
Q5504			
Q5505		F-2	①
Q5510	M-2		②
Q5511	E-7		②
Q5512	E-7		②
Q5513	E-7		②
Q5514		F-2	①
Q5515		B-3	①
Q5516		B-3	①
Q5517		B-3	①
Q5518		B-3	①
Q5602		F-10	①
Q5604		G-10	①
Q5605	E-1		②
Q5606	C-8		②
Q5607	C-8		②
Q5701		F-5	①
Q5702		E-5	①
Q5703		E-5	①
Q5705		I-2	①
Q5706	I-2		②
Q5707	K-7		②
Q5708		K-8	①
Q5801	A-7		②
Q5802	A-7		②

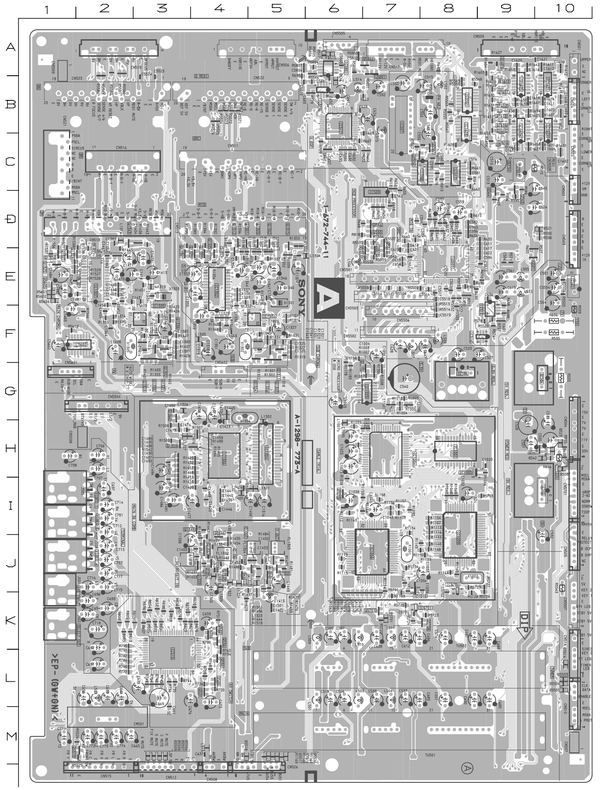
IC

	L	R
IC501	E-1	
IC503	C-2	C-11
IC504	G-2	G-10
IC505	I-2	I-10
IC506	G-3	G-8
IC507	B-4	B-7
IC508	C-8	
IC509		D-7
IC510	F-9	
IC511	E-8	
IC512	B-6	
IC514	B-6	
IC515	L-3	
IC516	F-9	
IC517	C-8	
IC1001	H-8	
IC1002		H-4
IC1003	G-7	
IC1004	H-7	
IC1005	H-8	
IC1007		J-5
IC1008	J-7	
IC1009	J-8	
IC1010	J-7	
IC1301	F-5	
IC1302	E-4	
IC1304	H-5	
IC1305	F-3	
IC1306	H-3	
IC1307	E-2	
IC1309		H-8
IC1601	B-10	
IC1603	B-8	
IC1604	B-10	
IC1605	B-9	
IC1606	B-9	
IC5601	B-8	
IC5602	F-2	
IC5701	K-7	
IC5702	K-8	
IC5703		K-5
IC5801	A-6	

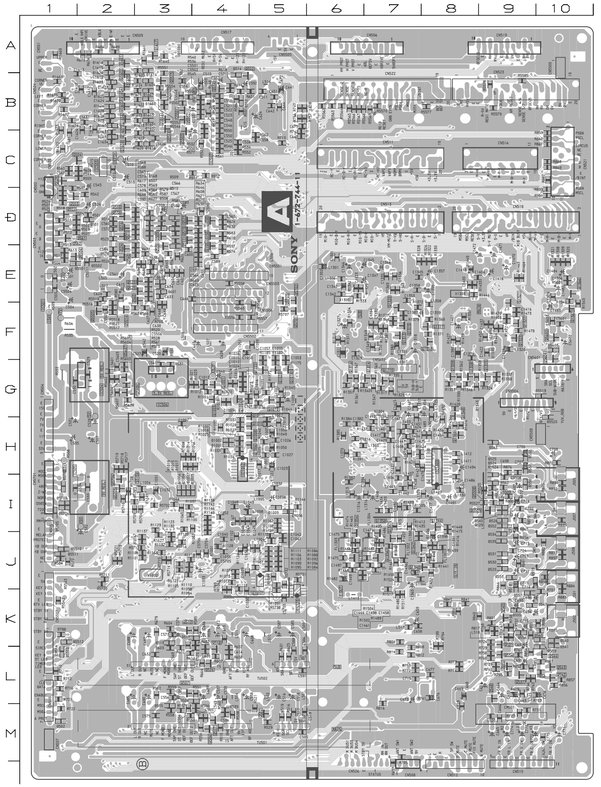
L ; component side
R ; conductor side

A (1/4) [AV SW, VIDEO PROCESSOR, VDSP, H JUNGLE, TUNER, VIDEO/DVD INPUT] **A (2/4)** [CHROMA DECODER, YUV SW, 3D COMB FILTER, A/D CONVERTER] **A (3/4)** [MAIN CPU, OSD CPU, OSD PROCESSOR, NVM] **A (4/4)** [SENSE SW, SENSE AMP]

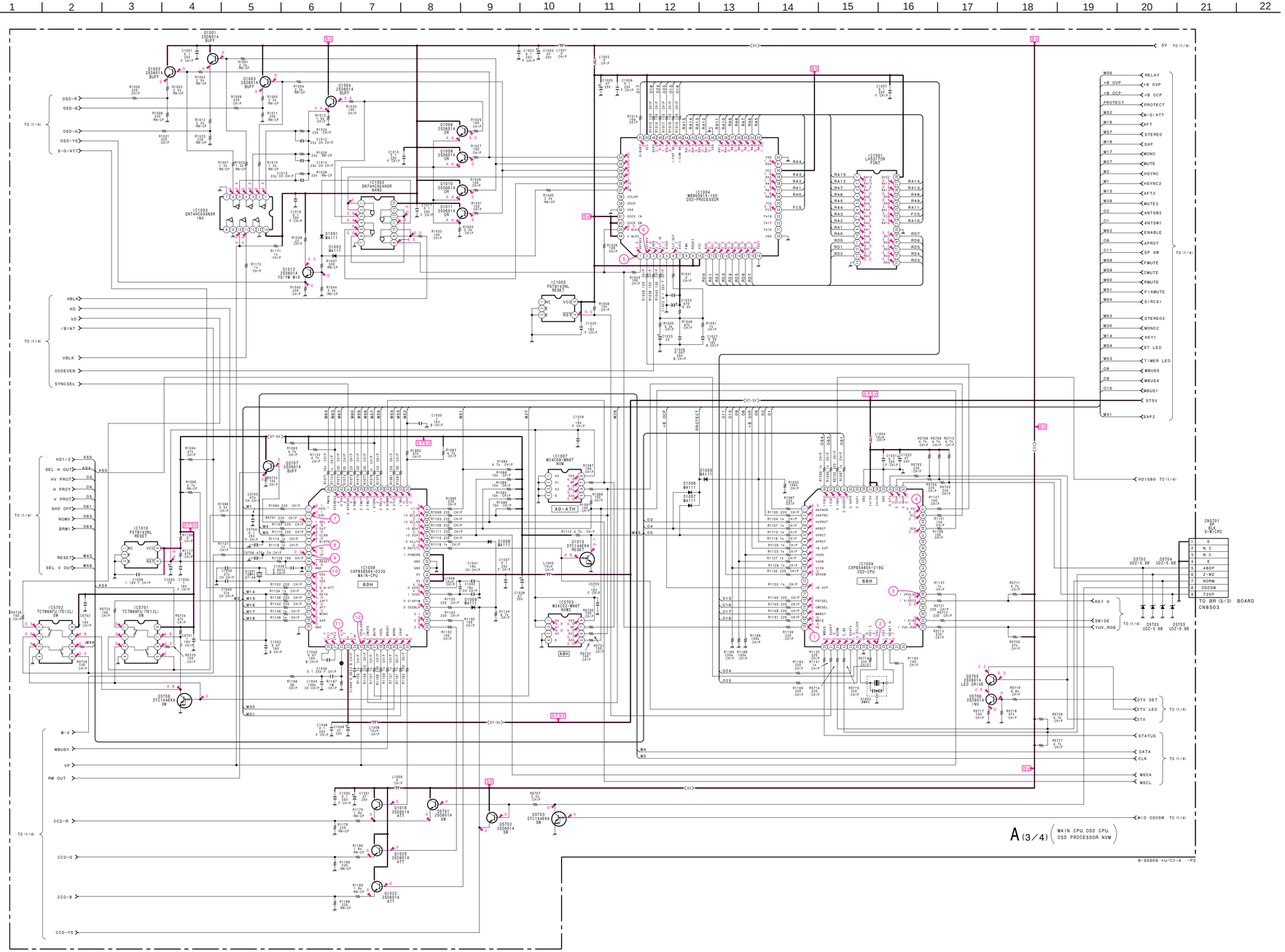
– A Board –



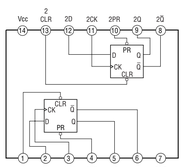
< Component Side >



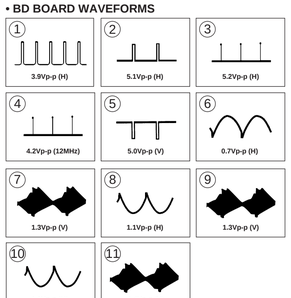
< Conductor Side >


A (3/4)
MAIN CPU, OSD CPU
OSD PROCESSOR, NVM
B-SS609 <U/C>-A -P3
IC1003 SN74HC08ANSR
IC1004 M38B45M8BXXXFP OSD-PROCESSOR
IC1005 PST81439NL RESET
IC1006 W24C08-WN6T NVM
IC1007 W24C08-WN6T NVM
IC1008 CXP85858A-022Q MAIN-CPU
IC1009 CXP85458-219Q OSD-CPU
IC5701 TC7W66FU
IC5702 TC7W66FU
IC5703 W24C02-WN6T NVM
CN5701 SUB-MICRO
TO BR (3/3) BOARD CN8503
• A (3/4) BOARD WAVEFORMS
5.1Vp-p (H)
5.1Vp-p (8MHz)
5.0Vp-p (V)
5.1Vp-p (V)
5.1Vp-p (H)
5.1Vp-p (V)
4.7Vp-p (H)
4.4Vp-p (H)
4.7Vp-p (V)
4.1Vp-p (12MHz)
2.2Vp-p (H)
4.8Vp-p (V)

BD BOARD : IC1716 MC74HC74AFEL

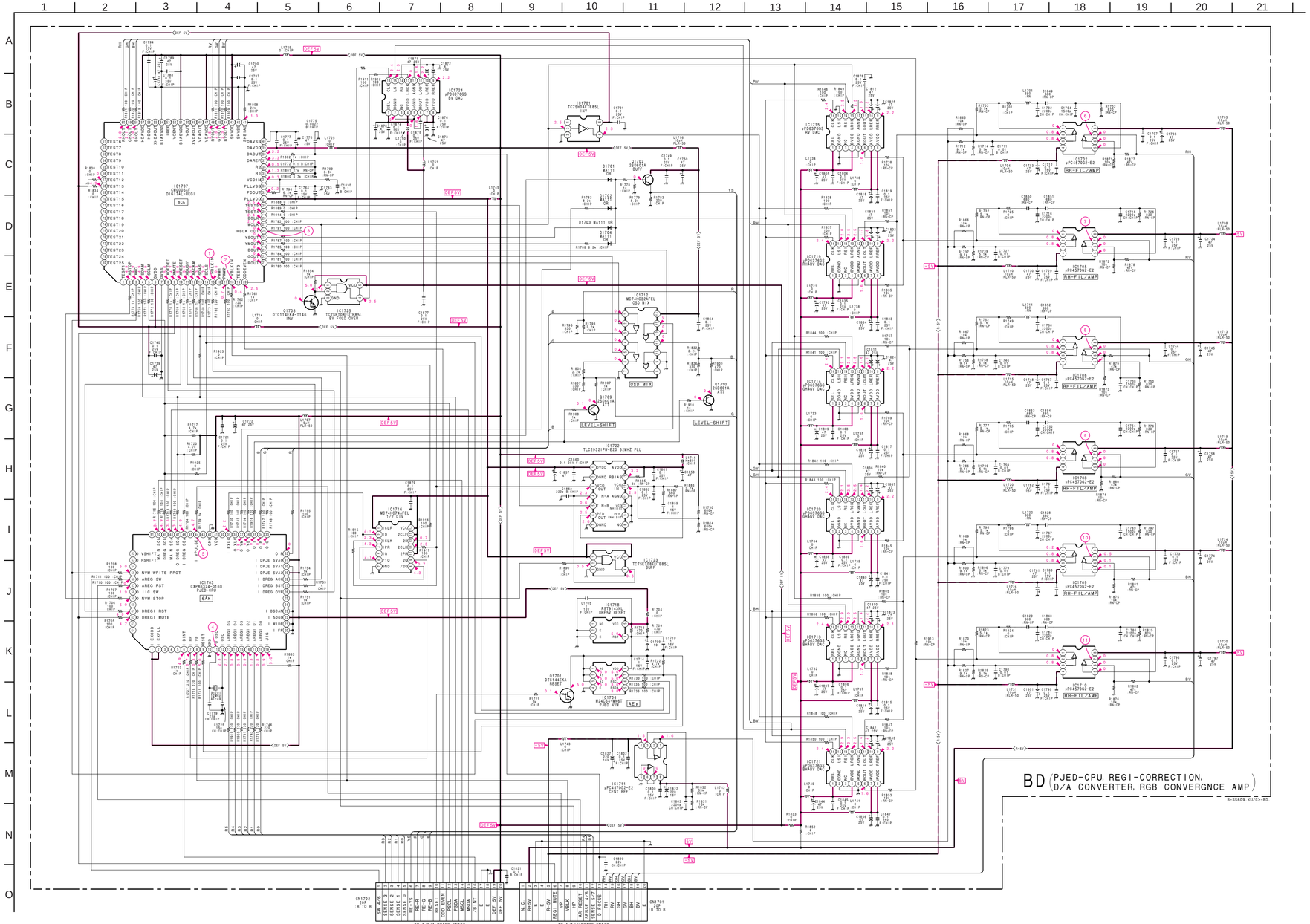


• **BD BOARD WAVEFORMS**



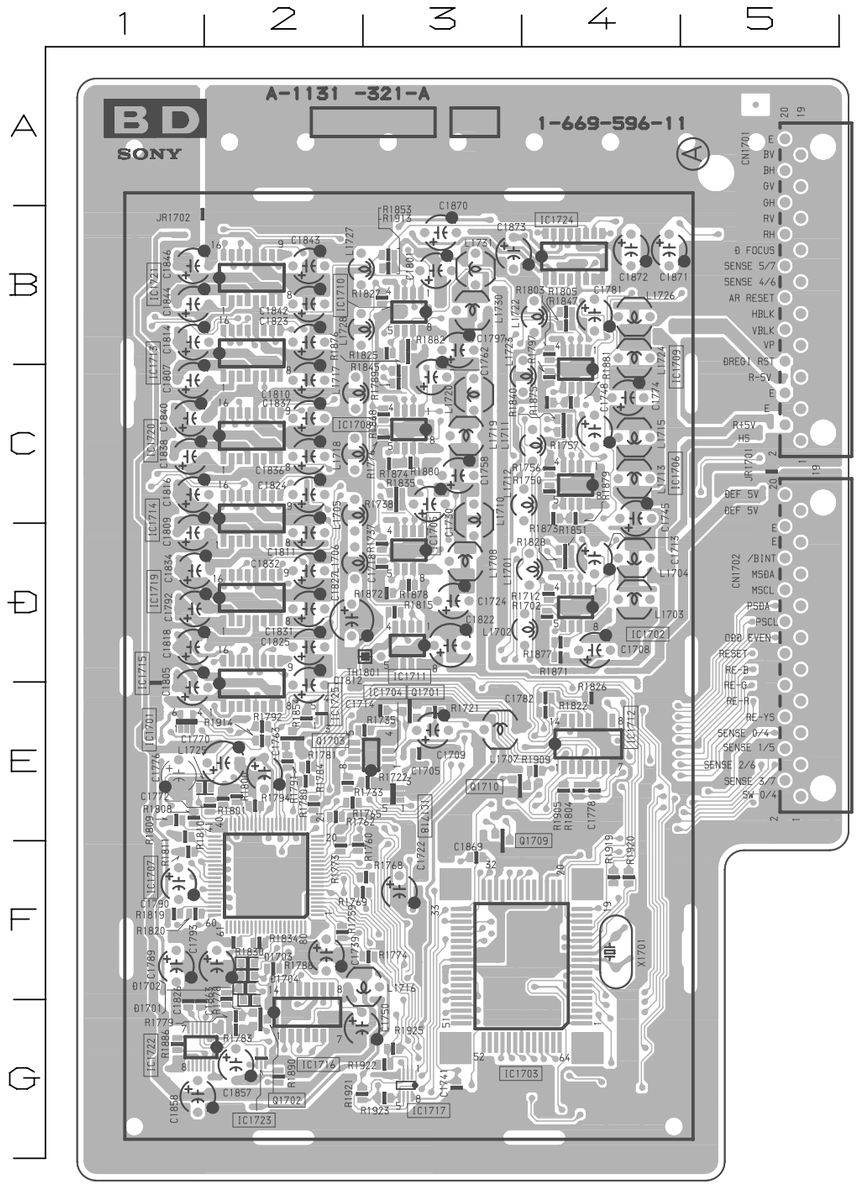
Schematic diagram
← A (3/4) board

Schematic diagram
BD board →

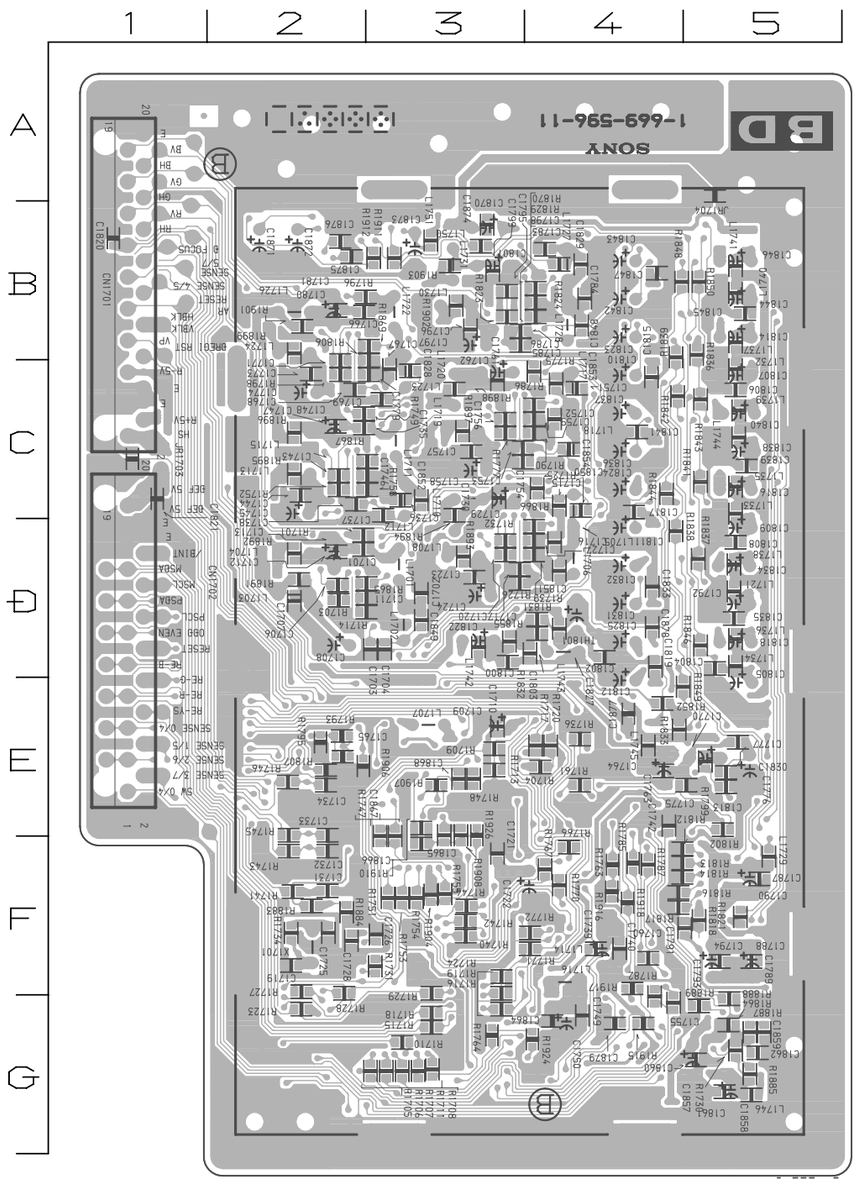


BD [PJED CPU, REGI CORRECTION, D/A CONVERTER, RGB CONVERGENCE AMP]

– BD Board –



< Component Side >



< Conductor Side >

BD BOARD

DIODE

	L	R	*
D1701	F-2		③
D1702	F-2		③
D1703	F-2		③
D1704	F-2		③

TRANSISTOR

	L	R	*
Q1701	E-3		②
Q1702	G-2		②
Q1703	E-2		②
Q1709	E-3		②
Q1710	E-3		②

IC

	L	R
IC1701	E-1	
IC1702	D-4	
IC1703	F-3	
IC1704	E-3	
IC1705	D-3	
IC1706	C-4	
IC1707	F-2	
IC1708	C-3	
IC1709	B-4	
IC1710	B-3	
IC1711	D-3	
IC1712	E-4	
IC1713	B-2	
IC1714	C-2	
IC1715	D-2	
IC1716	G-2	
IC1718	E-3	
IC1719	D-2	
IC1720	C-2	
IC1721	B-2	
IC1722	G-1	
IC1723	G-2	
IC1724	B-4	
IC1725	E-2	

L ; component side
R ; conductor side

BM [MAIN/SUB ADC, MID CPU, MID CONTROL, PLL, MEMORY]

– BM Board –

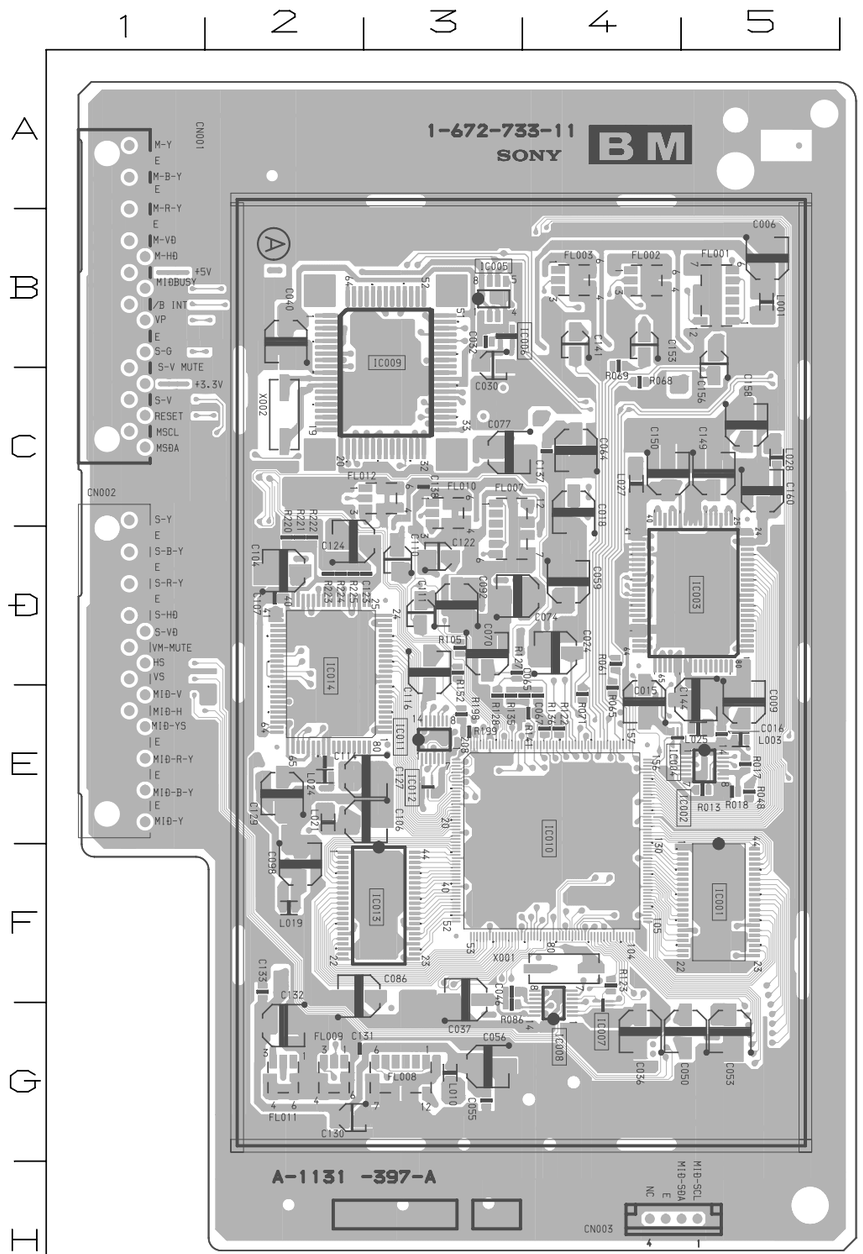
BM BOARD

DIODE			
	L	R	*
D001		F-4	③
D002		C-3	③
D003		C-3	③

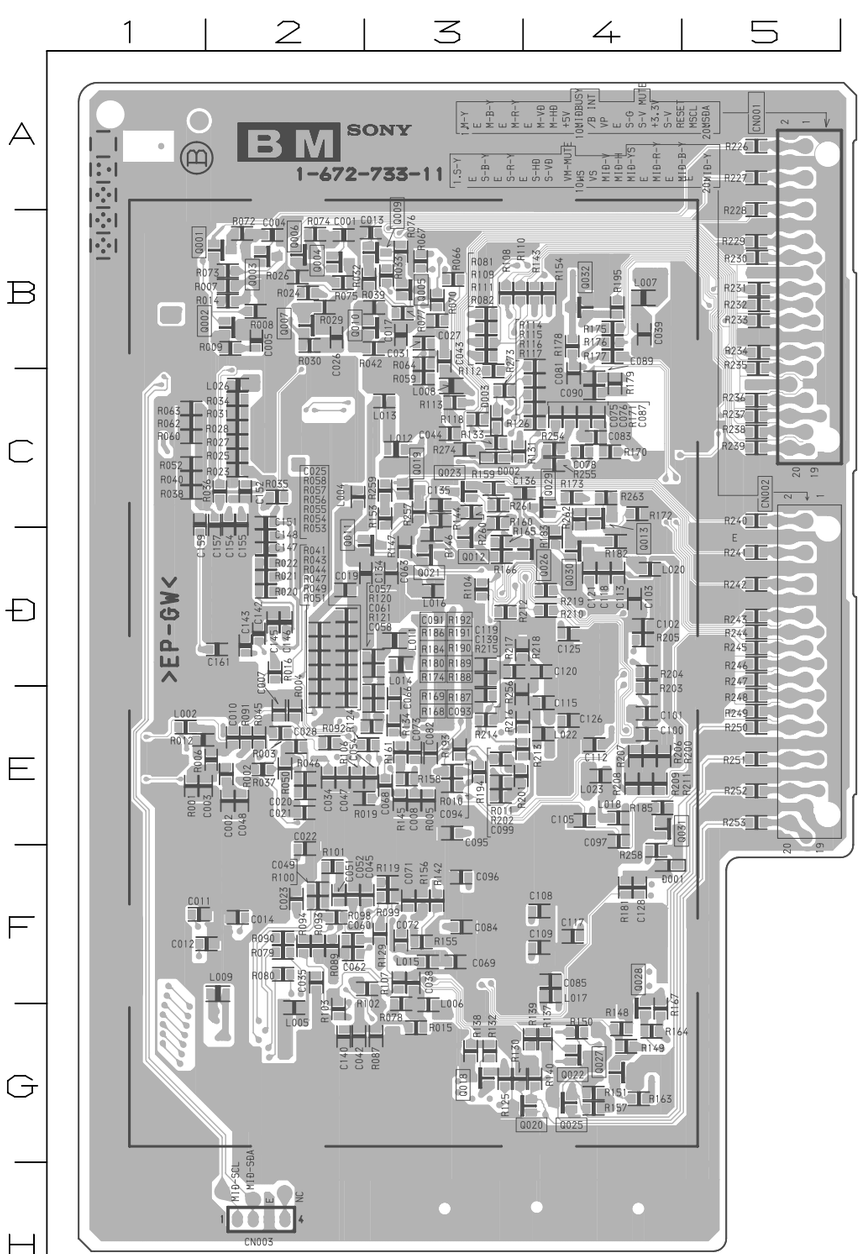
TRANSISTOR			
	L	R	*
Q001		B-2	①
Q002		B-2	①
Q006		B-2	①
Q007		B-2	①
Q009		B-3	①
Q010		B-3	①
Q018		G-3	①
Q019		C-3	①
Q020		G-4	①
Q021		D-3	①
Q022		G-4	①
Q023		C-3	①
Q025		G-4	①
Q026		D-4	①
Q027		G-4	①
Q028		F-4	①
Q029		C-4	①
Q030		D-4	①
Q031		E-4	①
Q032		B-4	①

IC		
	L	R
IC001	F-5	
IC002	E-5	
IC003	D-5	
IC004	E-4	
IC005	B-3	
IC006	B-3	
IC007	G-4	
IC008	G-4	
IC009	C-3	
IC010	E-4	
IC011	E-3	
IC012	E-3	
IC013	F-3	
IC014	D-2	

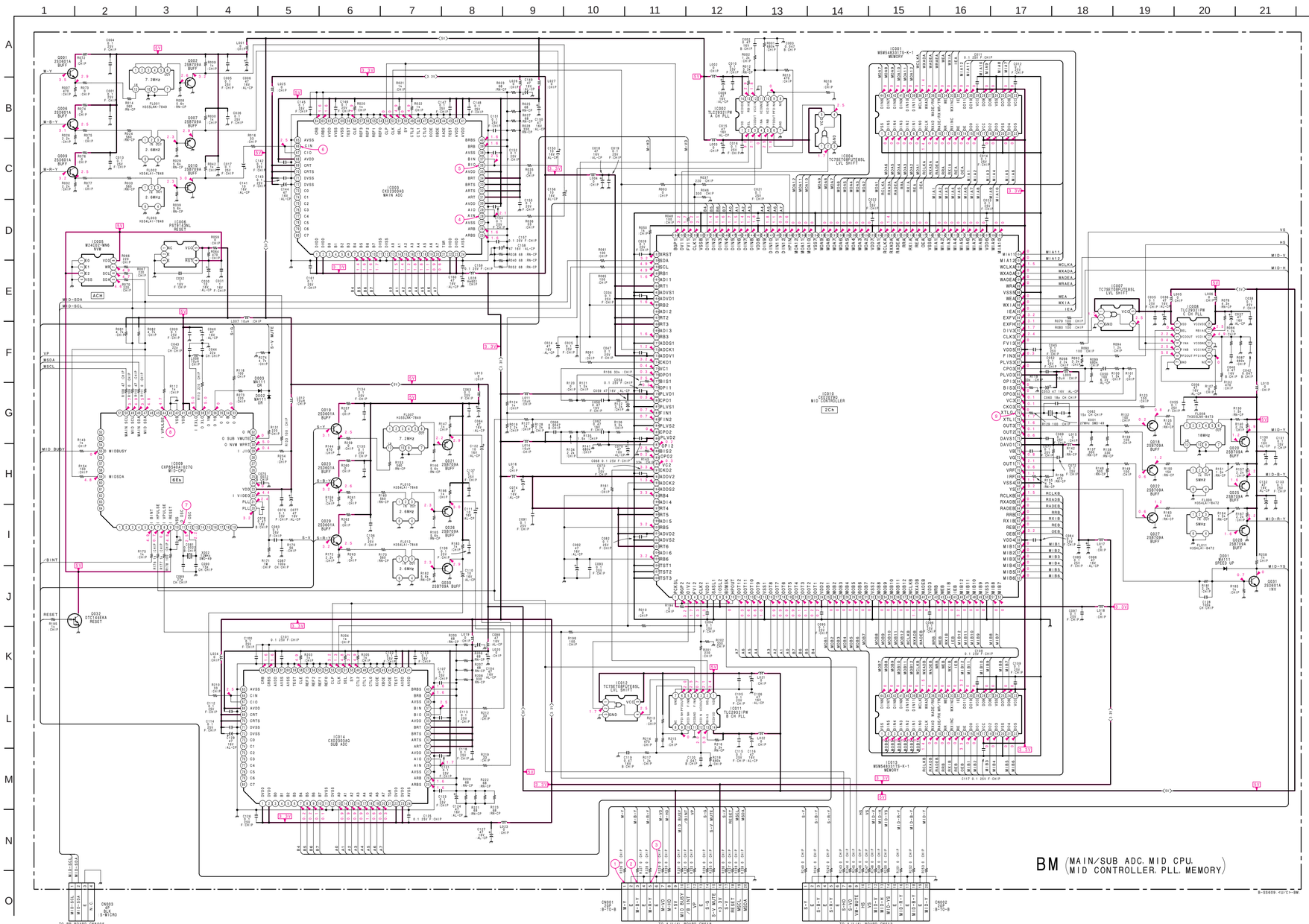
L ; component side
R ; conductor side



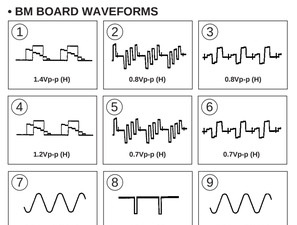
< Component Side >

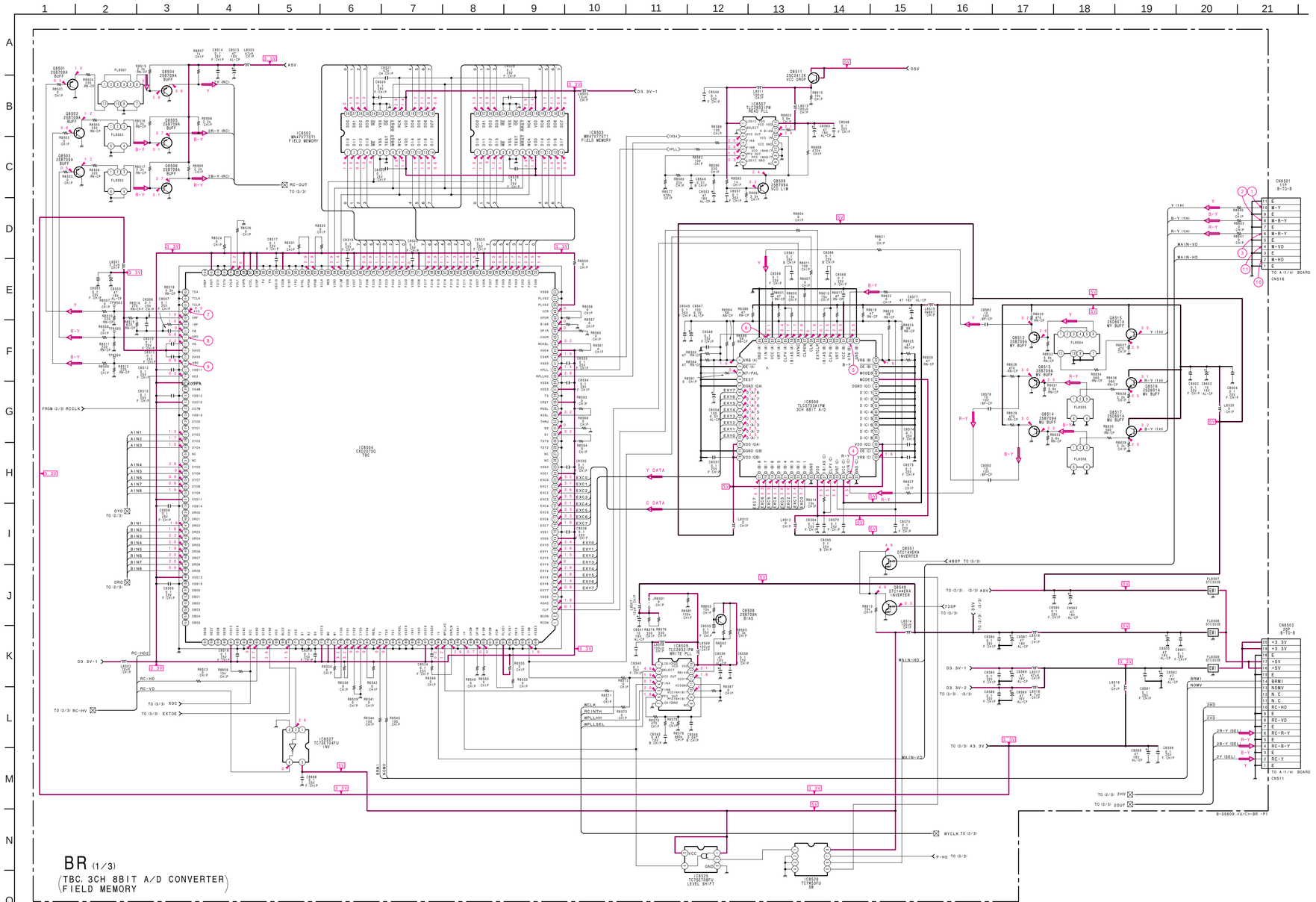


< Conductor Side >



• BM BOARD WAVEFORMS



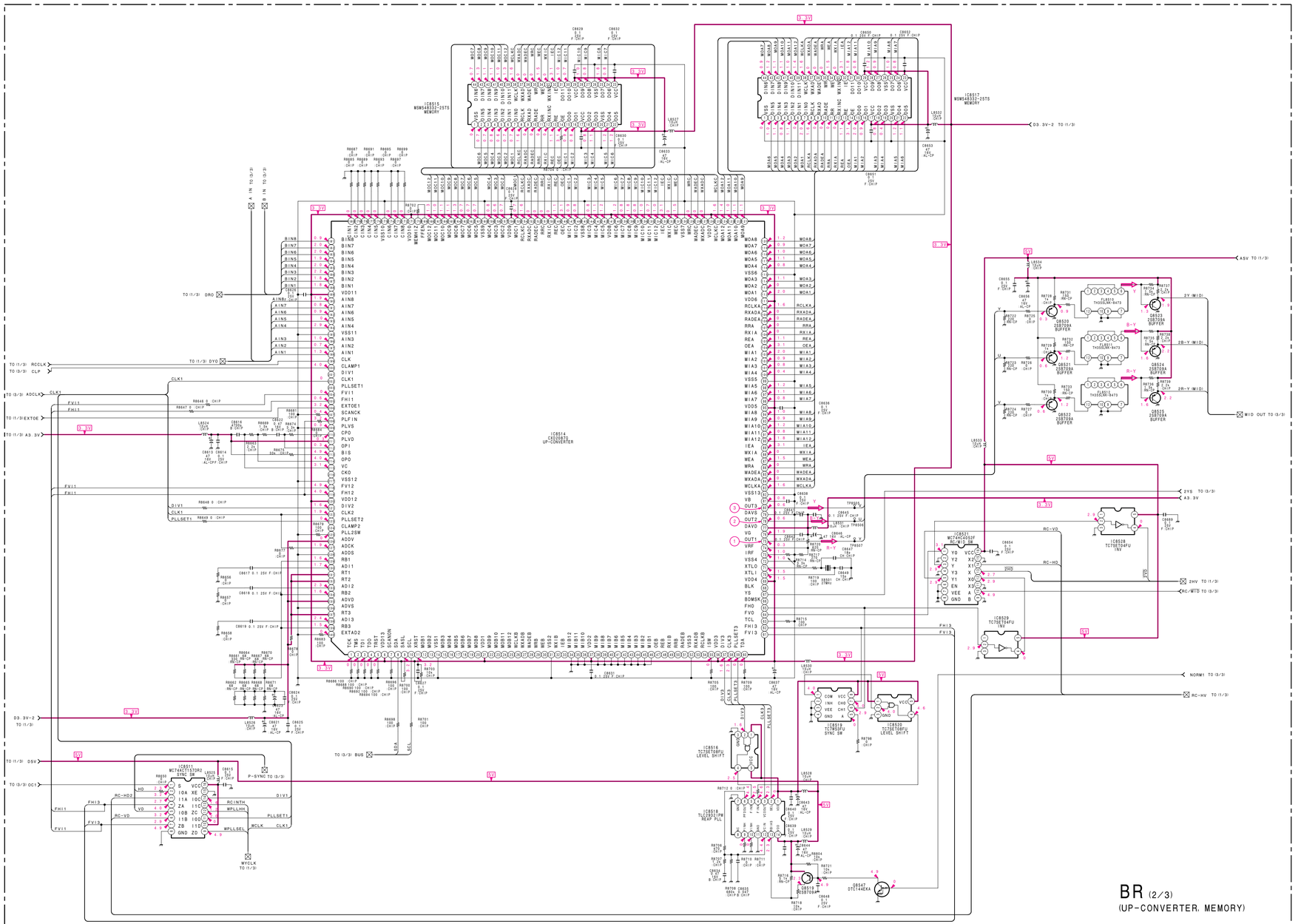


• BR(1/3) BOARD WAVEFORMS

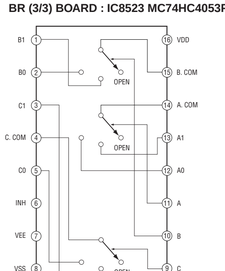
① 1.4Vp-p (H)	② 0.8Vp-p (H)	③ 0.8Vp-p (H)
④ 0.7Vp-p (V)	⑤ 0.7Vp-p (H)	⑥ 1.4Vp-p (H)
⑦ 0.8Vp-p (V)	⑧ 0.5Vp-p (H)	⑨ 0.5Vp-p (H)

Schematic diagram ← BM board

Schematic diagram BR (1/3) board →


BR (2/3)
(UP-CONVERTER, MEMORY)
IC8514
CXD2087Q
UP-CONVERTER
IC8515
MSM54B332-25TS
MEMORY
IC8516
TC7SET08F
LEVEL SHIFT
IC8517
TC7SET08F
LEVEL SHIFT
IC8518
TC7SET08F
LEVEL SHIFT
IC8519
TLC2933IPW
MEAP PLL
IC8511
MC74ACT157DR2
SYNC SW
IC8521
MC74HC4052F
IC8526
TC7SET04FU
INV
IC8527
MC74HC4052F
IC8528
TC7SET04FU
INV
IC8529
TC7SET04FU
INV
IC8530
TC7SET08F
SYNC SW
IC8531
TC7SET08F
SYNC SW
IC8532
TC7SET08FU
LEVEL SHIFT
IC8533
TC7SET08FU
LEVEL SHIFT
IC8534
TC7SET08FU
LEVEL SHIFT
IC8535
TC7SET08FU
LEVEL SHIFT
IC8536
TC7SET08FU
LEVEL SHIFT
IC8537
MSM54B332-25TS
MEMORY
3.3V
5V
TO I/3: DRO
TO I/3: DYO
TO I/3: RCCLK
TO I/3/3: CLP
TO I/3/3: ADCLK
TO I/3/3:EXTOE
TO I/3 A3 3V
TO I/3/3: DSV
TO I/3/3: OC1
TO I/3/3 BUS
D3 3V-2 TO I/3/3
P-SYNC TO I/3/3
WYCLK TO I/3/3
ASV TO I/3/3
M I/O OUT TO I/3/3
2YS TO I/3/3
A3 3V
2HV TO I/3/3
RC/WTS TO I/3/3
NORM1 TO I/3/3
RC-HV TO I/3/3
2Y-MID
2B-Y-MID
2R-Y-MID
RC-VD
RC-HD
COMMON X OUT/IN
COMMON Y OUT/IN
X CH IN/OUT
Y CH IN/OUT
BR (2/3) BOARD : IC8521 MC74HC4052F
• BR(2/3) BOARD WAVEFORMS
0.8Vp-p (H)
0.5Vp-p (H)
0.5Vp-p (H)
B-S5609-<U/C>-BR-P2

BR (3/3) BOARD : IC8523 MC74HC4053FEL



Schematic diagram
BR (2/3) board

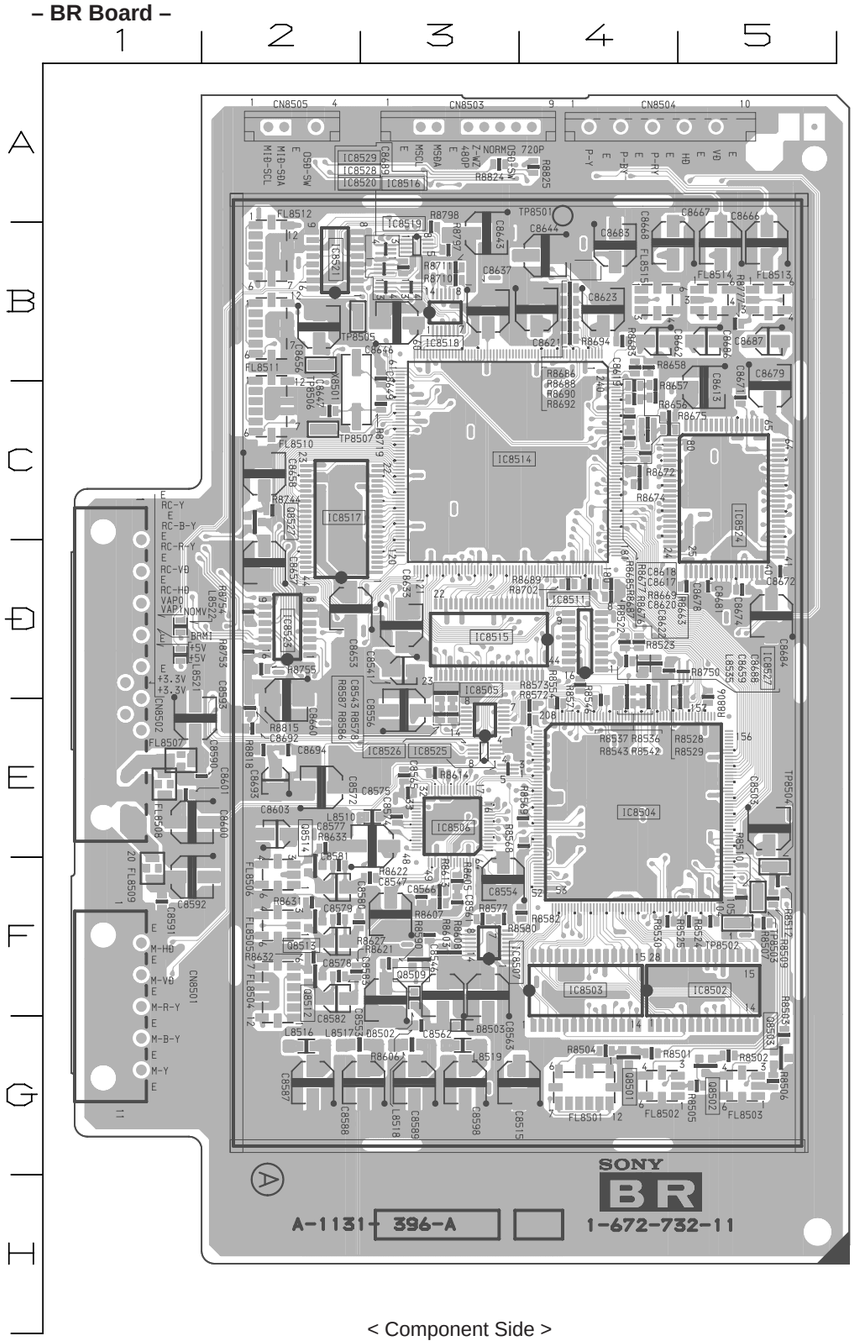
Schematic diagram
BR (3/3) board

BR (3/3)
(CHROMA DECODER, MID/RC SW)

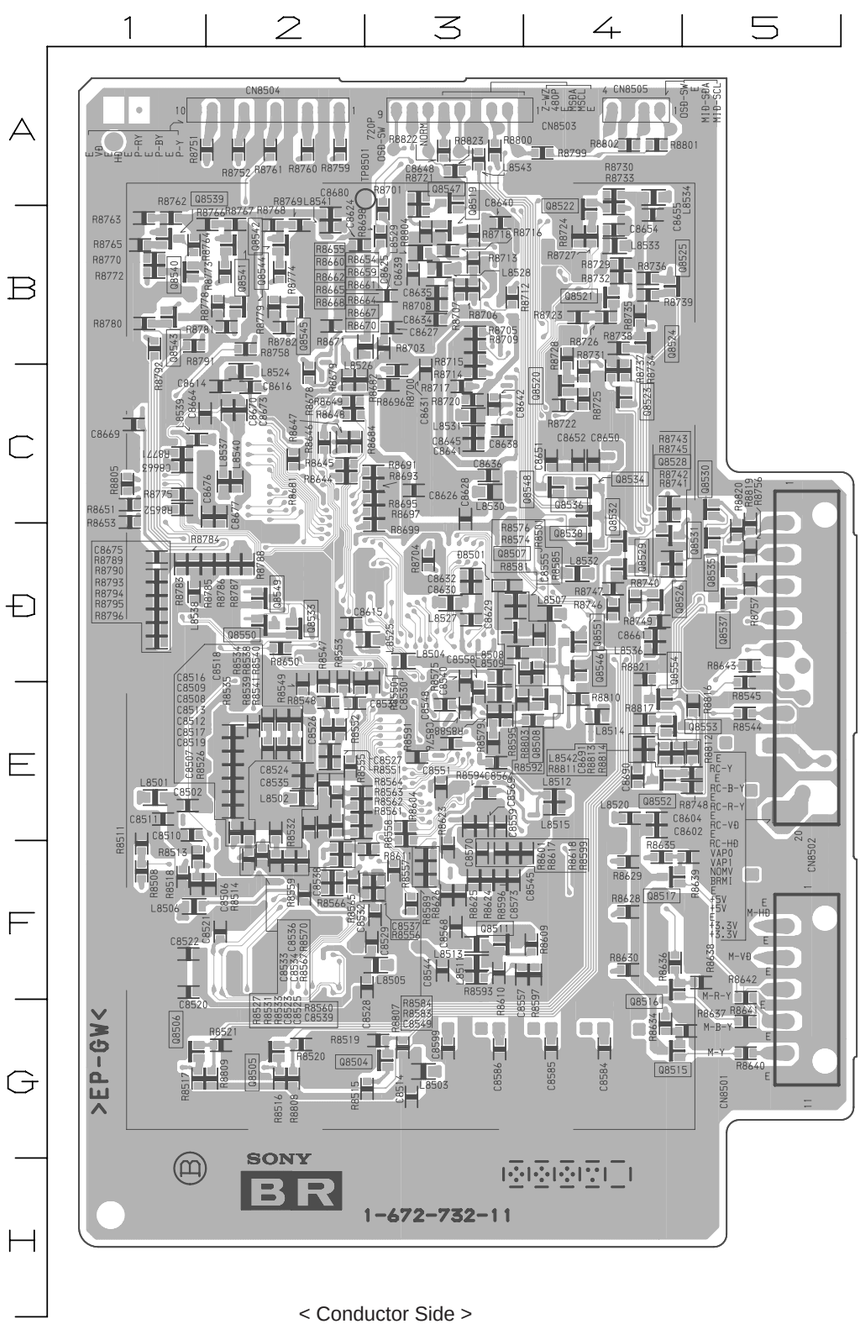
B-SS609-4U/C>-BR-PS

BR (1/3) [TBC,FIELD MEMORY, 3CH 8BIT A/D CONVERTER, PLL] **BR (2/3)** [UP CONVERTER, 1MB MEMORY] **BR (3/3)** [CHROMA DECODER, MID/RC SW]

– BR Board –



< Component Side >



< Conductor Side >

BR BOARD

TRANSISTOR

	L	R	*
Q8501		G-4	②
Q8502		G-5	②
Q8503		G-5	②
Q8504	G-3		①
Q8505	G-2		①
Q8506	G-1		①
Q8508	E-4		①
Q8509		F-3	②
Q8511	F-3		①
Q8512		F-2	②
Q8513		F-2	②
Q8514		F-2	②
Q8515	G-4		①
Q8516	F-4		①
Q8517	F-4		①
Q8519	B-3		①
Q8520	C-4		①
Q8521	B-4		①
Q8522	B-4		①
Q8523	C-4		①
Q8524	B-4		①
Q8525	B-4		①
Q8526	D-4		①
Q8527	C-2		①
Q8528	D-4		①
Q8529	D-4		①
Q8530	C-5		①
Q8531	D-5		①
Q8532	C-4		①
Q8533	D-2		①
Q8534	C-4		①
Q8535	D-5		①
Q8536	C-4		①
Q8537	D-5		①
Q8538	D-4		①
Q8539	B-1		①
Q8540	B-1		①
Q8541	B-2		①
Q8542	B-2		①
Q8543	B-1		①
Q8544	B-2		①
Q8545	B-2		①
Q8546	D-4		①
Q8547	B-3		①
Q8548	C-4		①
Q8549	D-2		①
Q8550	D-2		①
Q8551	D-4		①
Q8552	E-4		①
Q8553	E-4		①
Q8554	E-4		①

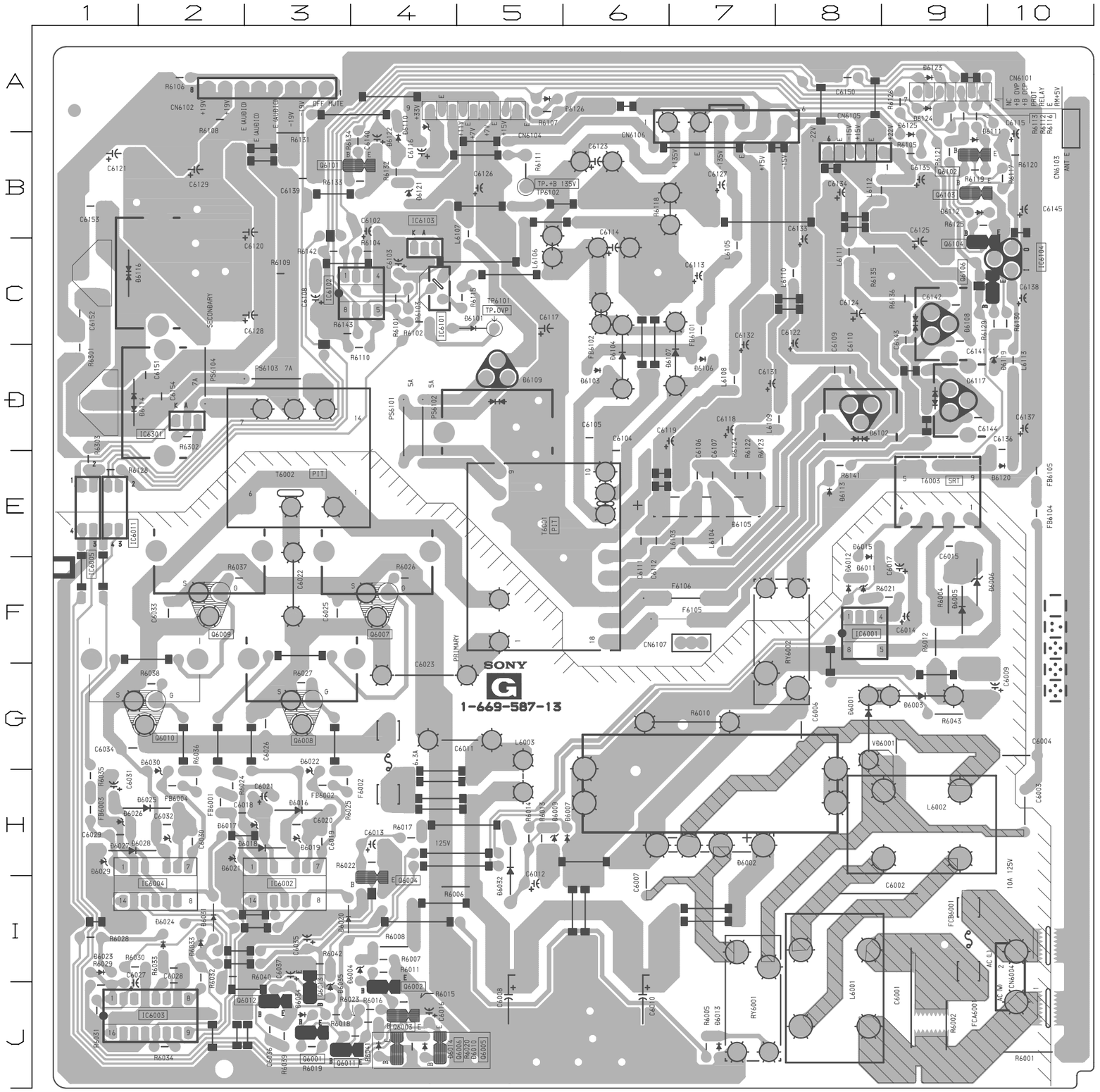
IC

	L	R
IC8502	F-5	
IC8503	F-4	
IC8504	E-4	
IC8505	E-3	
IC8506	E-3	
IC8507	F-3	
IC8511	D-4	
IC8514	C-3	
IC8515	D-3	
IC8516	B-3	
IC8517	C-2	
IC8518	B-3	
IC8519	B-3	
IC8520	B-3	
IC8521	B-2	
IC8523	D-2	
IC8524	C-5	
IC8525	E-3	
IC8526	E-3	
IC8527	D-4	
IC8528	B-3	
IC8529	B-3	

L ; component side
R ; conductor side

G [POWER SUPPLY]

– G Board –

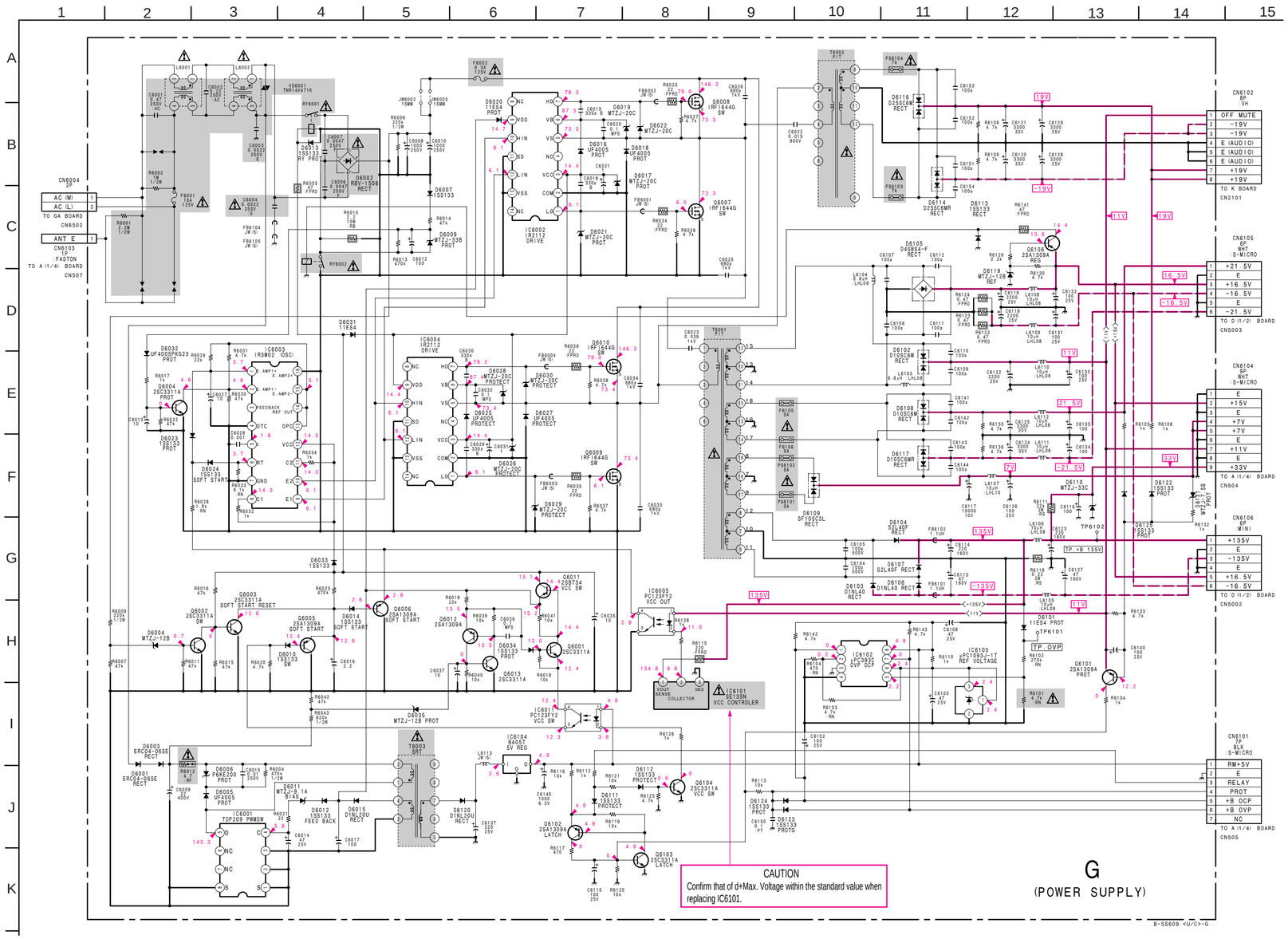


G BOARD

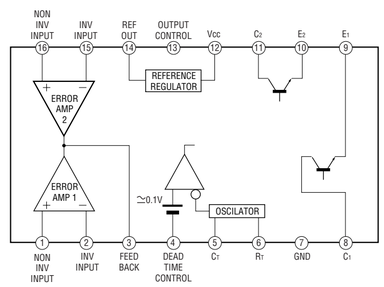
DIODE		*
D6001	G-8	-
D6002	H-7	-
D6003	G-9	-
D6004	I-4	-
D6005	F-9	-
D6006	F-9	-
D6007	H-6	-
D6009	H-5	-
D6010	J-4	-
D6011	F-8	-
D6012	F-8	-
D6013	J-7	-
D6014	J-4	-
D6015	E-7	-
D6016	H-3	-
D6017	H-3	-
D6018	H-3	-
D6019	H-3	-
D6020	I-3	-
D6021	H-2	-
D6022	H-3	-
D6023	I-1	-
D6024	I-2	-
D6025	H-2	-
D6026	H-1	-
D6027	H-1	-
D6028	H-2	-
D6029	H-1	-
D6030	H-2	-
D6031	I-2	-
D6032	H-5	-
D6033	I-2	-
D6034	J-3	-
D6035	J-3	-
D6101	C-5	-
D6102	D-8	-
D6103	D-6	-
D6104	D-6	-
D6105	E-8	-
D6106	D-7	-
D6107	D-7	-
D6108	C-9	-
D6109	D-5	-
D6110	A-4	-
D6111	B-9	-
D6112	B-9	-
D6113	E-8	-
D6114	D-1	-
D6116	C-1	-
D6117	D-9	-
D6119	D-10	-
D6120	E-10	-
D6121	B-4	-
D6122	B-4	-
D6123	A-9	-
D6124	A-9	-
D6125	B-9	-

TRANSISTOR		*
Q6001	J-3	-
Q6002	J-4	-
Q6003	J-4	-
Q6004	I-4	-
Q6005	J-4	-
Q6006	J-4	-
Q6007	F-4	-
Q6008	G-3	-
Q6009	F-2	-
Q6010	G-2	-
Q6011	J-4	-
Q6012	J-3	-
Q6013	J-3	-
Q6101	B-4	-
Q6102	B-9	-
Q6103	B-9	-
Q6104	C-9	-
Q6106	C-10	-

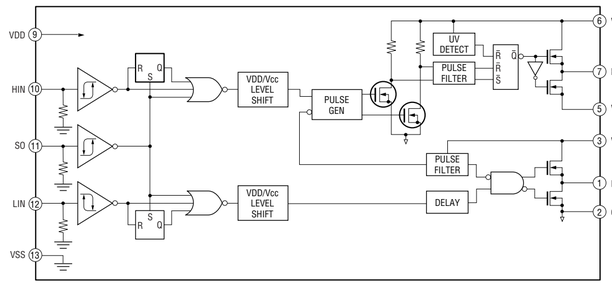
IC	
IC6001	F-8
IC6002	I-3
IC6003	J-2
IC6004	I-2
IC6005	E-1
IC6011	E-1
IC6101	C-4
IC6102	C-4
IC6103	C-4
IC6104	C-10
IC6301	D-2



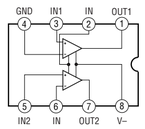
G BOARD : IC6003 IR3M02



G BOARD : IC6002, 6004 IR2112

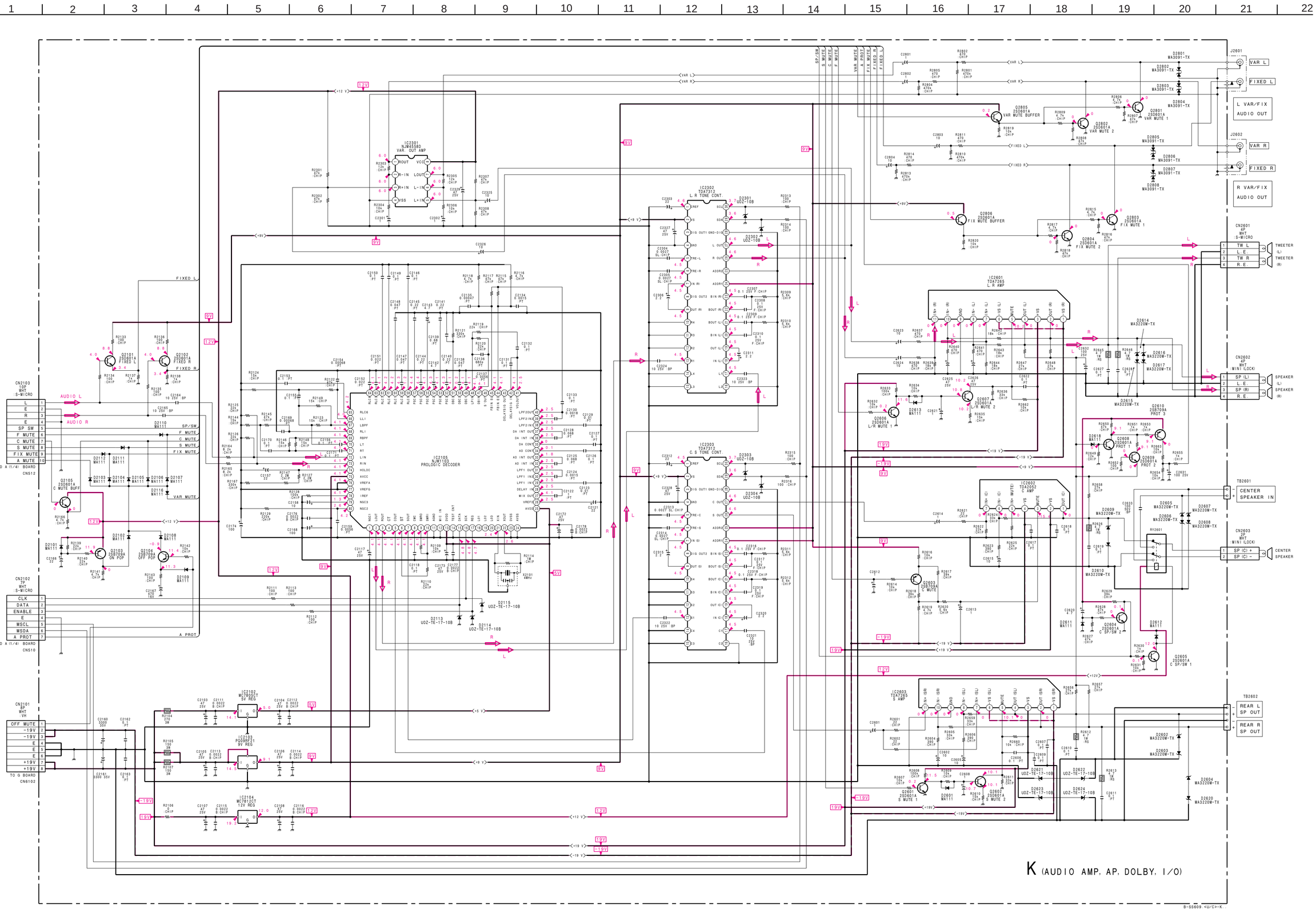


G BOARD : IC6102 µPC393C

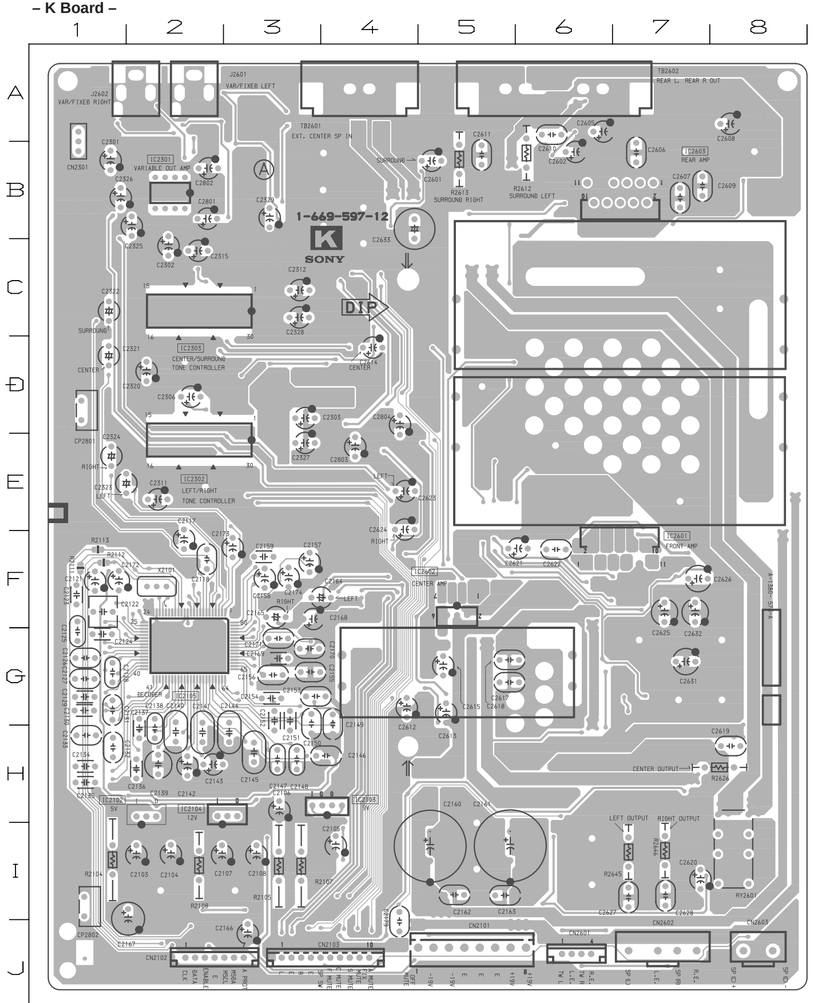


Schematic diagram
← G board

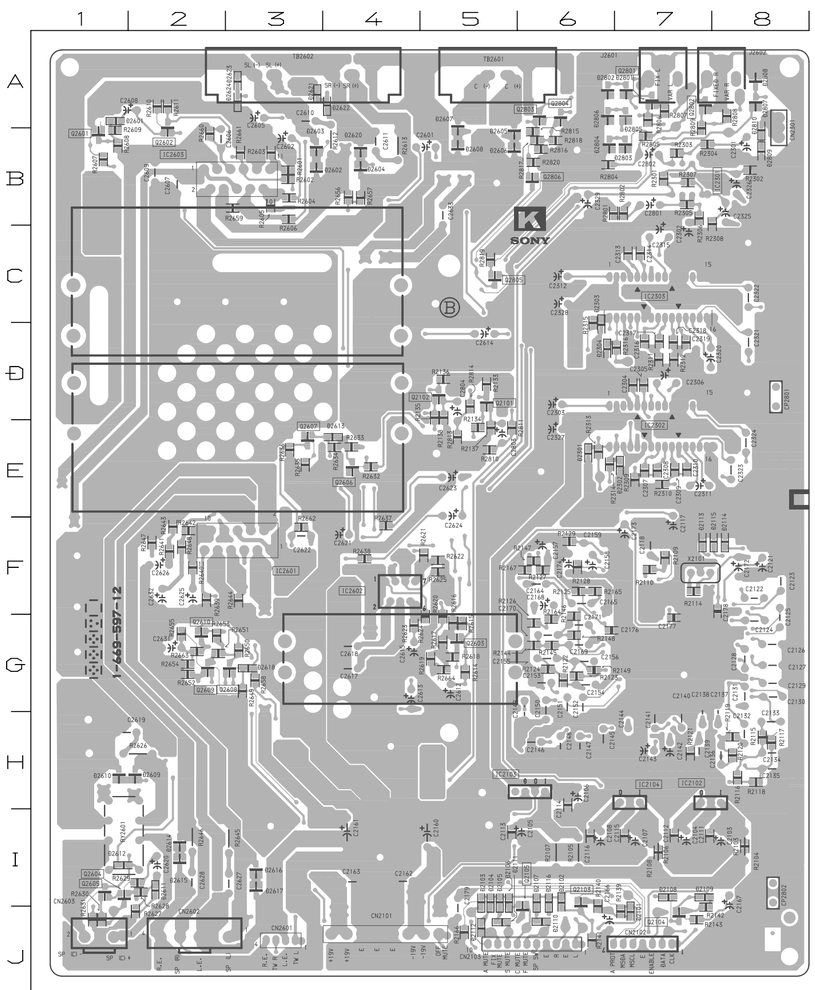
Schematic diagram
K board →


IC2301 NJM4558D VAR OUT AMP
IC2302 TDA7312 L R TONE CONT.
IC2303 TDA7312 C S TONE CONT.
IC2105 NJW1100 PROLOGIC DECODER
IC2601 TDA7265 L R AMP
IC2602 TDA2052 C AMP
IC2603 TDA7265 S AMP
IC2102 MC78S05CT 5V REG
IC2103 PQ09RF21 9V REG
IC2104 MC78S12CT 12V REG
CN2103 10P WHT S-MICRO
CN2102 7P WHT S-MICRO
CN2101 8P WHT VH
CN2601 4P WHT S-MICRO
CN2602 2P WHT MINI (LOCK)
CN2603 2P WHT MINI (LOCK)
TB2601 CENTER SPEAKER IN
TB2602 REAR L SP OUT / REAR R SP OUT
J2601 VAR L / FIXED L / L VAR/FIX AUDIO OUT
J2602 VAR R / FIXED R / R VAR/FIX AUDIO OUT
TWEETER (L) / TWEETER (R)
SPEAKER (L) / SPEAKER (R)
CENTER SPEAKER
AUDIO L
AUDIO R
FIXED L
FIXED R
VAR MUTE
A PROT
SP/SW
F MUTE
C MUTE
S MUTE
FIX MUTE
TO A (1/4) BOARD CN512
TO A (1/4) BOARD CN510
TO G BOARD CN6102
K (AUDIO AMP, AP, DOLBY, I/O)
B-SS609 <U/C>-K

– K Board –



< Component Side >



< Conductor Side >

K BOARD

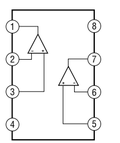
DIODE		
	L	R *
D2101	J-7	⑤
D2102	I-6	③
D2103	I-5	③
D2104	I-5	③
D2105	I-5	③
D2106	I-5	③
D2107	I-6	③
D2108	I-7	③
D2109	I-7	③
D2110	J-6	⑤
D2111	J-5	③
D2112	J-5	③
D2113	F-7	③
D2114	F-8	③
D2115	F-8	③
D2116	I-6	③
D2301	E-6	⑤
D2302	E-7	③
D2303	D-6	⑤
D2304	D-6	⑤
D2601	A-1	⑤
D2602	B-3	④
D2603	B-3	④
D2604	B-4	④
D2605	B-5	④
D2606	B-5	④
D2607	B-5	④
D2608	B-5	④
D2609	H-2	④
D2610	H-1	④
D2611	I-2	⑤
D2612	I-1	③
D2613	E-4	⑤
D2614	I-2	④
D2615	I-9	④
D2616	I-3	④
D2617	I-3	④
D2618	G-3	③
D2620	B-4	④
D2621	A-3	⑤
D2622	A-4	⑤
D2623	A-3	⑤
D2624	A-3	③
D2801	A-7	④
D2802	A-6	④
D2803	B-7	④
D2804	B-6	④
D2805	A-7	④
D2806	A-6	④
D2807	A-8	④
D2808	A-8	④

TRANSISTOR			
	L	R	*
Q2101		D-5	①
Q2102		D-5	①
Q2103		I-6	①
Q2104		J-7	①
Q2105		J-6	①
Q2601		B-1	①
Q2602		B-2	①
Q2603		G-5	①
Q2604		I-1	①
Q2605		I-1	①
Q2606		E-4	①
Q2607		E-3	①
Q2608		G-3	①
Q2609		G-2	①
Q2610		G-2	①
Q2801		A-7	①
Q2802		A-7	①
Q2803		A-6	①
Q2804		A-6	①
Q2805		C-5	①
Q2806		B-6	①

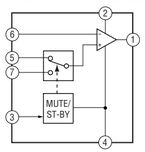
IC		
	L	R
IC2102	H-2	H-8
IC2103	H-4	H-6
IC2104	H-3	H-8
IC2105	G-2	
IC2301	B-2	
IC2302	E-2	
IC2303	C-2	
IC2601	F-7	F-3
IC2602	F-5	F-4
IC2603		B-3

L ; component side
R ; conductor side

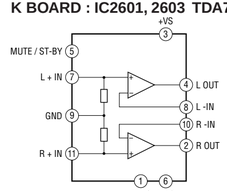
K BOARD : IC2301 NJM4558D



K BOARD : IC2602 TDA2052



K BOARD : IC2601, 2603 TDA7265



D BOARD

DIODE		*
D5001	F-1	-
D5002	E-1	-
D5004	F-2	-
D5005	F-4	-
D5006	E-2	-
D5008	E-3	-
D5009	B-3	-
D5010	F-3	-
D5011	G-4	-
D5013	B-7	-
D5014	E-3	-
D5015	B-9	-
D5016	G-4	-
D5017	G-4	-
D5019	D-8	-
D5020	D-7	-
D5021	D-4	-
D5022	B-1	-
D5024	H-4	-
D5025	C-2	-
D5027	D-4	-
D5028	B-2	-
D8001	G-16	-
D8002	F-15	Ⓑ
D8003	B-16	-
D8004	G-10	Ⓑ
D8005	G-16	Ⓑ
D8006	E-11	④
D8007	A-14	-
D8008	D-16	④
D8009	D-16	④
D8010	E-15	-
D8011	A-14	-
D8013	E-13	-
D8014	E-13	-
D8015	I-15	Ⓑ
D8017	I-16	Ⓑ
D8018	G-8	-
D8021	G-14	Ⓑ
D8023	J-14	Ⓑ
D8024	H-14	Ⓑ
D8025	G-14	Ⓑ
D8026	F-14	Ⓑ
D8027	G-14	Ⓑ
D8029	I-15	Ⓑ
D8031	H-13	④
D8032	E-11	-
D8033	I-15	Ⓑ
D8034	J-15	④
D8035	I-15	④
D8036	G-13	Ⓑ
D8037	J-14	Ⓑ
D8038	H-15	④
D8039	I-16	④
D8040	G-13	Ⓑ
D8041	G-9	④
D8042	I-16	-
D8043	H-13	④
D8044	B-16	-
D8045	I-13	④
D8046	I-13	④
D8047	I-12	④
D8048	F-11	④
D8050	F-10	Ⓑ
D8051	H-10	Ⓑ
D8052	H-8	Ⓑ
D8054	H-11	Ⓑ

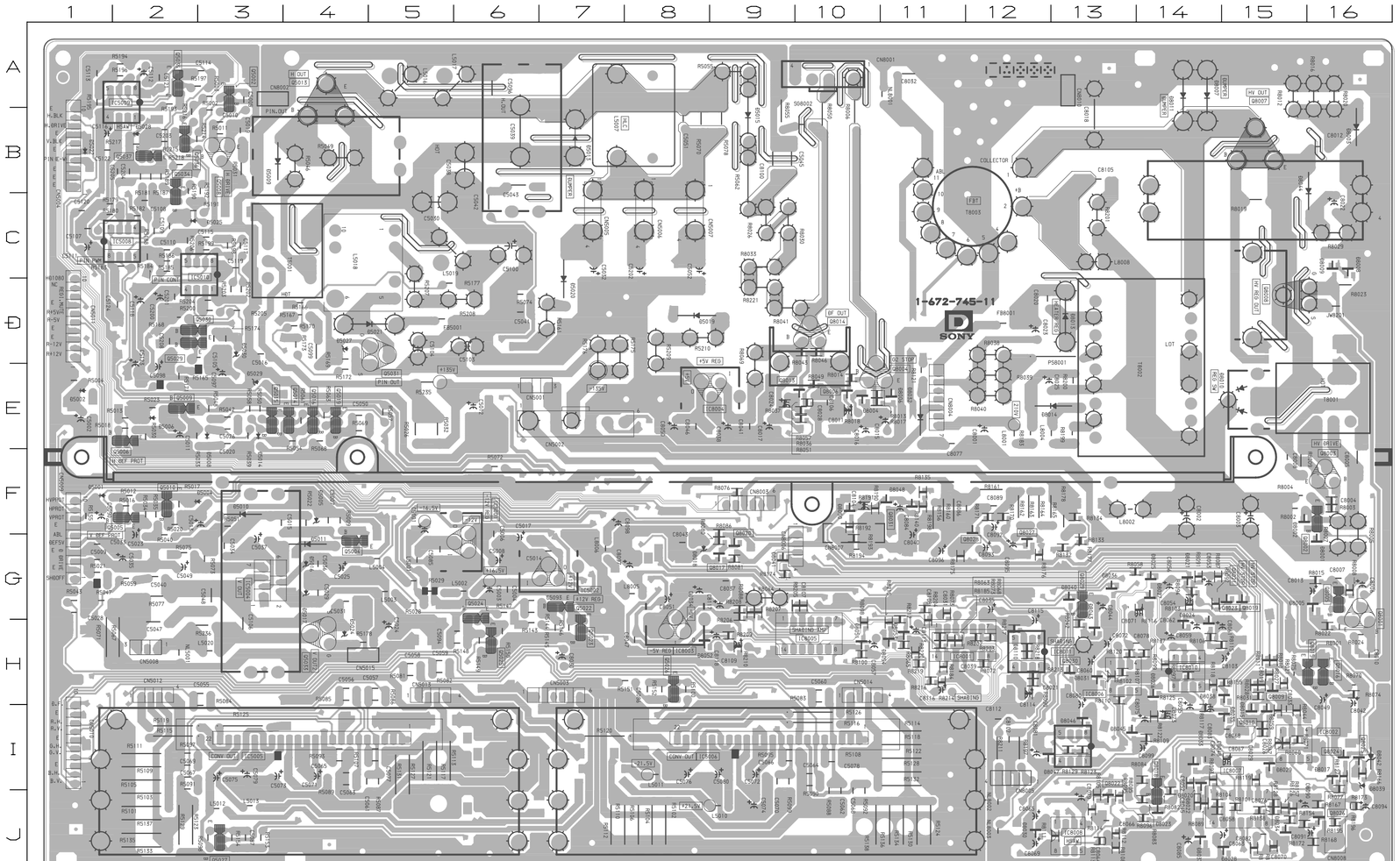
TRANSISTOR		*
Q5002	A-3	-
Q5004	G-4	-
Q5005	F-2	-
Q5006	E-2	-
Q5008	B-3	-
Q5009	E-2	-
Q5010	F-2	-
Q5013	A-4	-
Q5014	E-4	-
Q5015	E-3	-
Q5016	E-4	-
Q5019	E-4	-
Q5022	G-7	-
Q5023	H-7	-
Q5024	G-6	-
Q5025	H-6	-
Q5026	H-8	-
Q5027	J-3	-
Q5029	D-2	-
Q5030	D-2	-
Q5031	D-5	-
Q5033	H-4	-
Q5034	B-2	-
Q5035	A-2	-
Q8001	G-16	-
Q8002	G-16	-
Q8003	F-16	-
Q8004	G-10	-
Q8005	G-16	-
Q8006	G-10	①
Q8007	B-15	-
Q8008	D-15	-
Q8009	H-15	①
Q8010	I-15	①
Q8013	G-10	①
Q8014	D-10	-
Q8015	H-16	-
Q8016	H-16	-
Q8017	G-9	-
Q8018	J-14	①
Q8019	G-15	①
Q8020	G-9	①
Q8021	G-15	①
Q8022	J-13	①
Q8023	G-15	①
Q8024	I-16	①
Q8025	I-16	①
Q8026	J-16	①
Q8027	G-12	①
Q8028	G-12	①
Q8030	H-13	①
Q8031	F-11	①

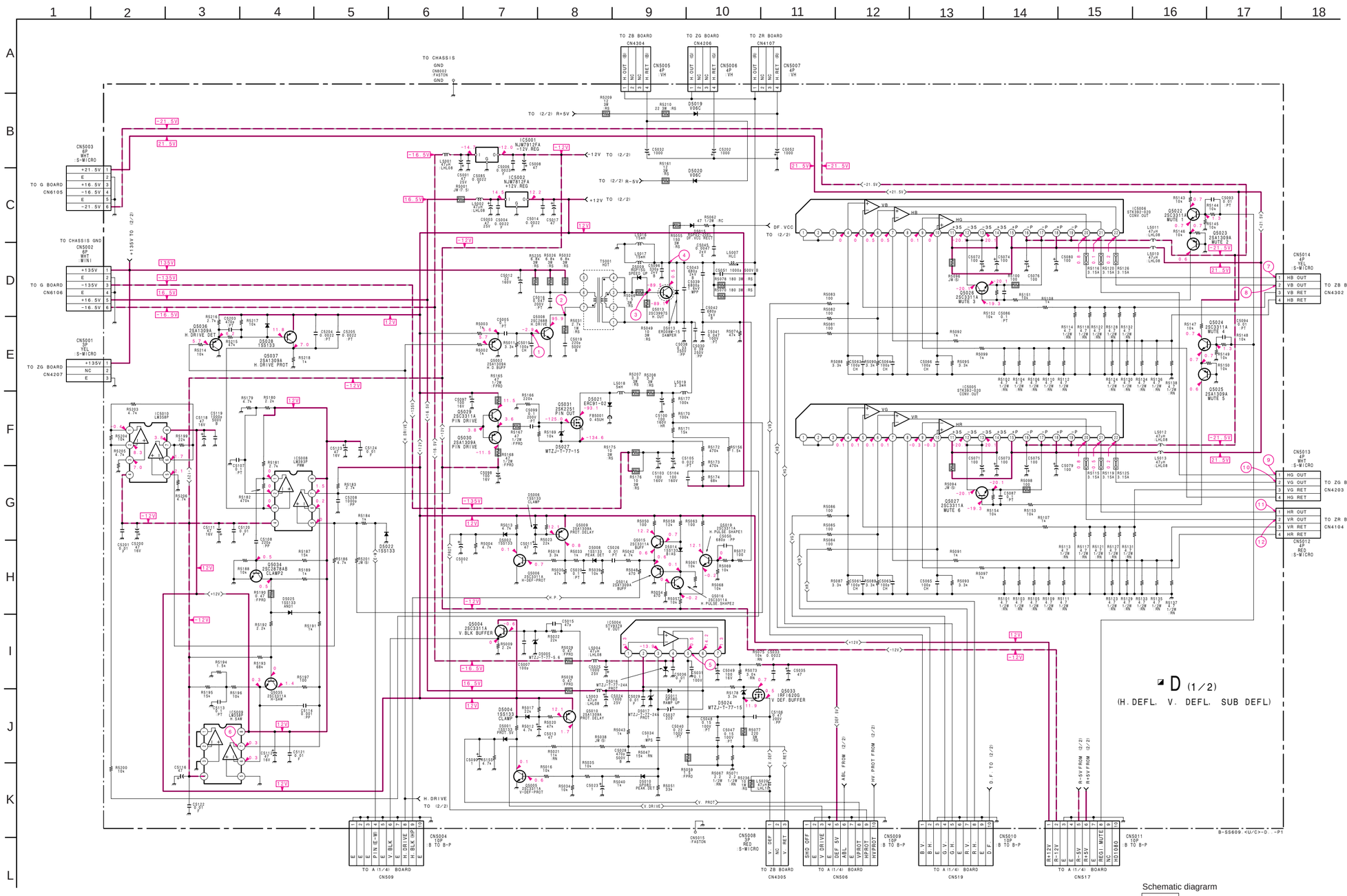
IC	
IC5001	G-6
IC5002	G-7
IC5004	G-3
IC5005	I-4
IC5006	I-9
IC5008	C-2
IC5009	A-2
IC5010	C-3
IC8001	H-11
IC8002	I-15
IC8003	H-8
IC8004	E-9
IC8005	H-10
IC8006	H-13
IC8007	J-15
IC8008	J-13
IC8009	I-13
IC8010	H-14
IC8011	H-12

NOTE :
The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.

D (1/2) [H DEFL, V DEFL, SUB DEFL] **D (2/2)** [H DEFL, V DEFL, SUB DEFL]

– D Board –





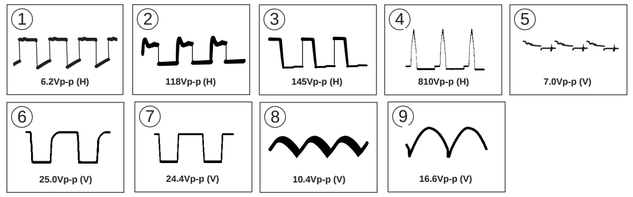
• D (1/2) BOARD WAVEFORMS

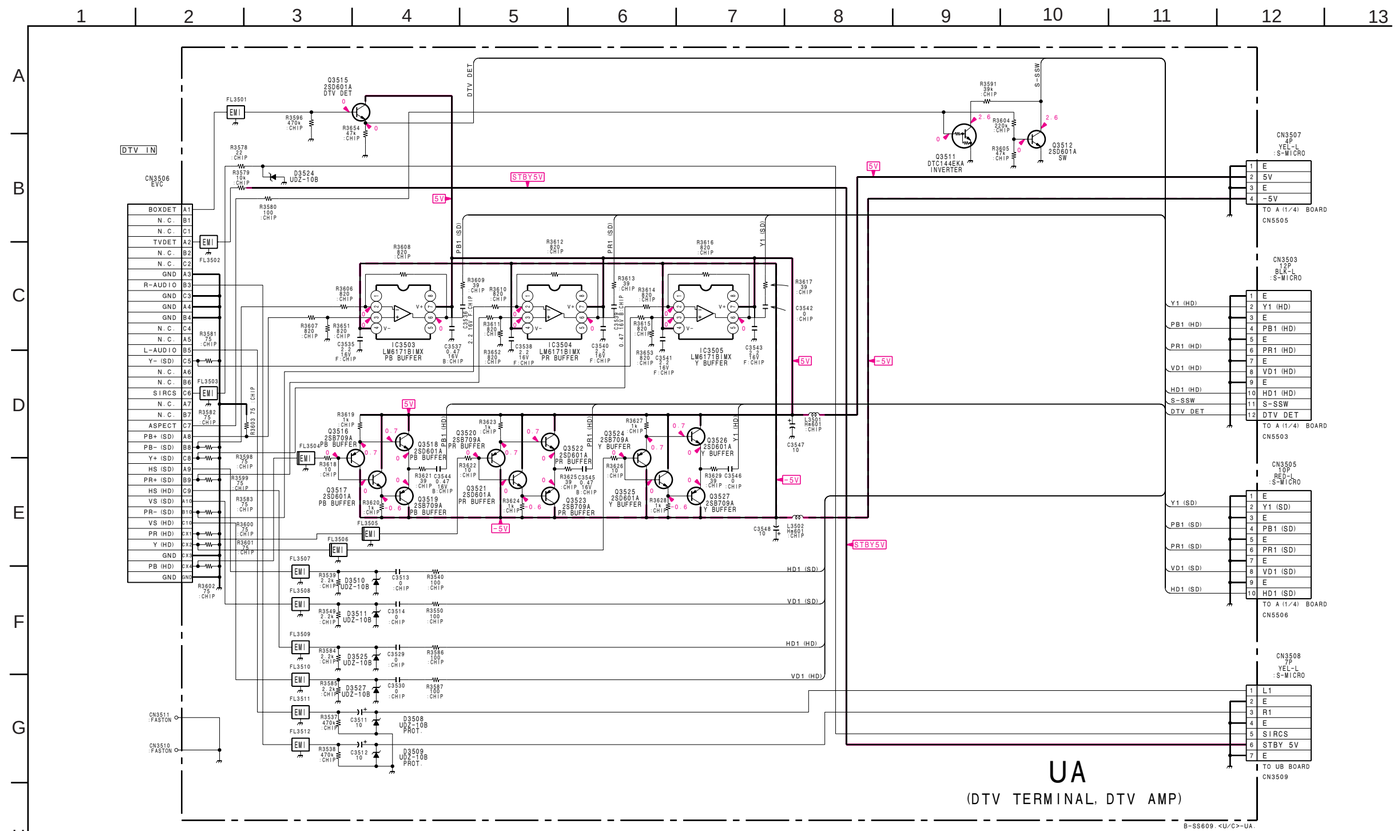
1	2	3
8.4Vp-p (H)	251Vp-p (H)	43.0Vp-p (H)
4	5	6
9.0Vp-p (H)	54.5Vp-p (V)	6.5Vp-p (H)
7	8	9
27.3Vp-p (H)	196.0Vp-p (V)	950Vp-p (H)
10	11	12
7.0Vp-p (V)	196.0Vp-p (H)	950Vp-p (V)

Schematic diagram ← D (1/2) board

Schematic diagram D (2/2) board →

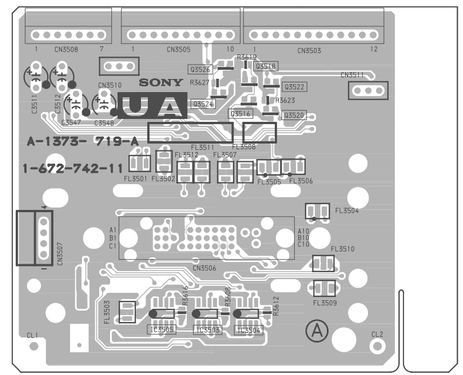
• D (2/2) BOARD WAVEFORMS



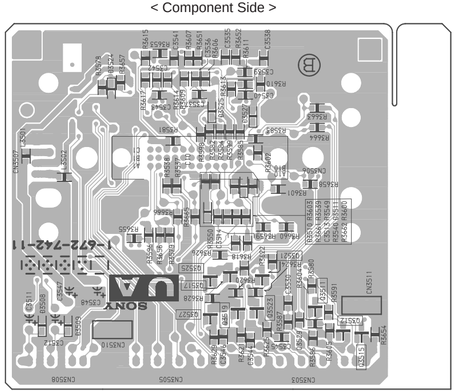


UA [DTV TERMINAL, DTV AMP]

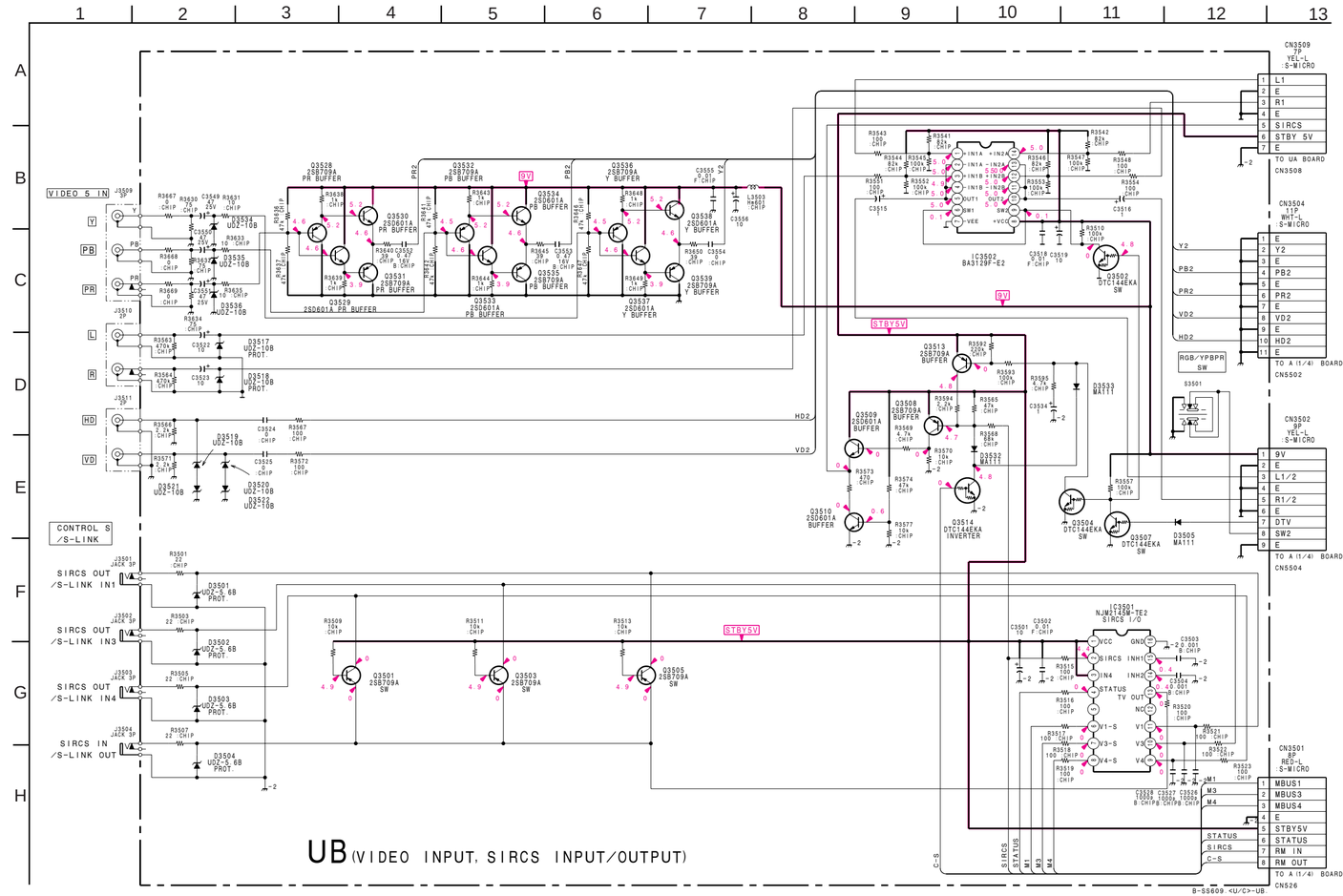
– UA Board –



< Component Side >

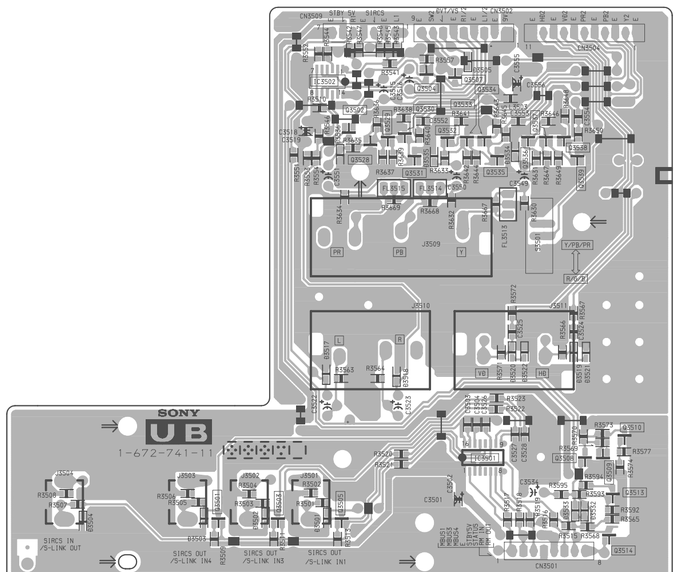


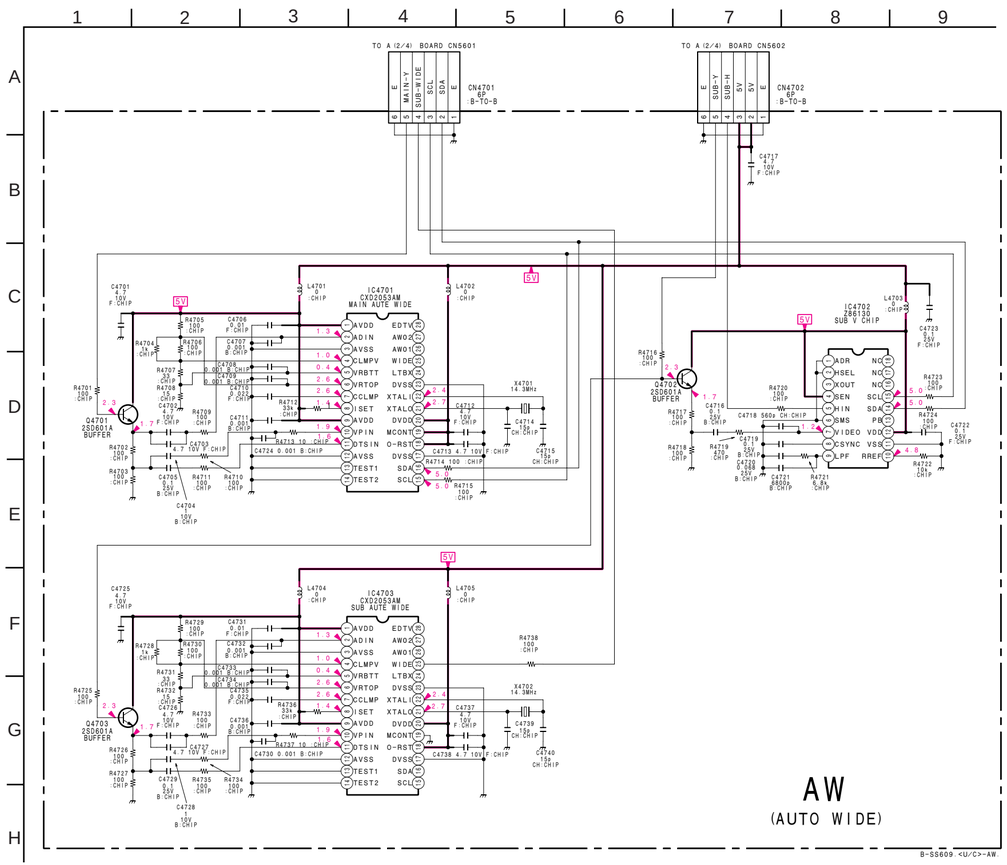
< Conductor Side >



UB [VIDEO INPUT, SIRCS INPUT/OUTPUT]

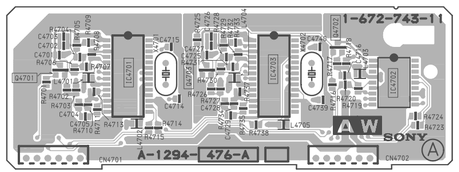
– UB Board –



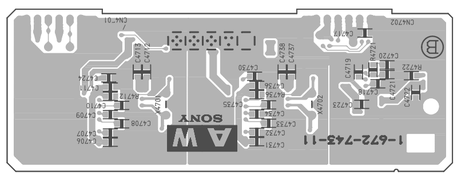


AW [AUTO WIDE]

– A Board –

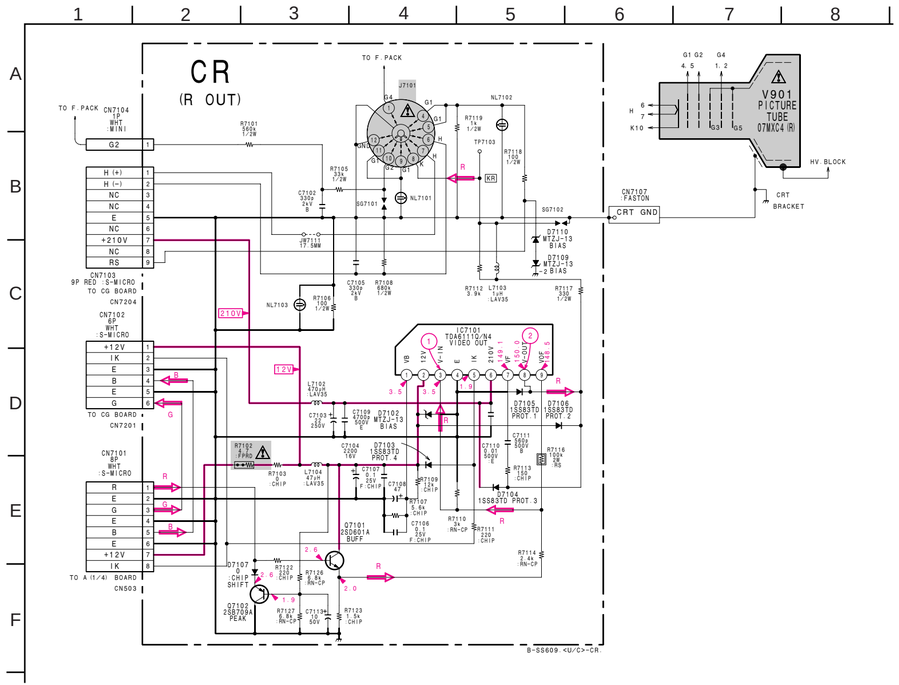


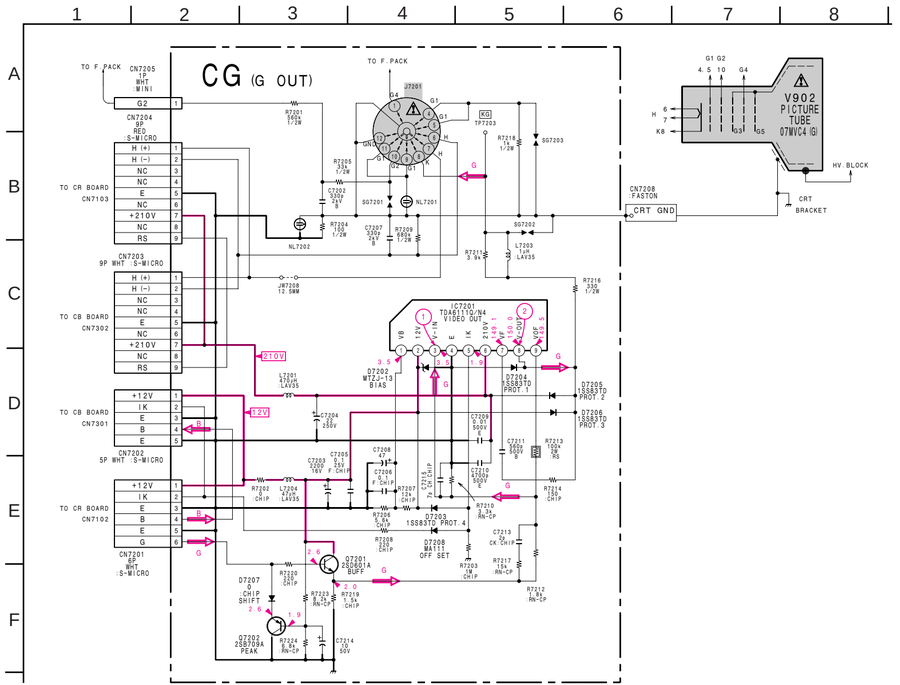
< Component Side >



Schematic diagram
← AW board

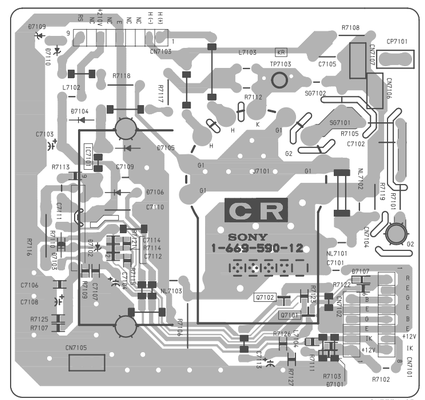
Schematic diagram
CR CG board →



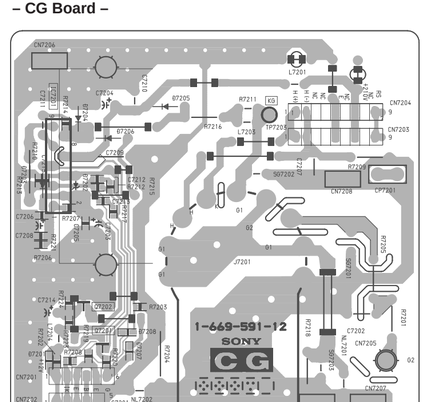


CR [R OUT] **CG** G OUT

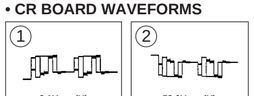
– CR Board –



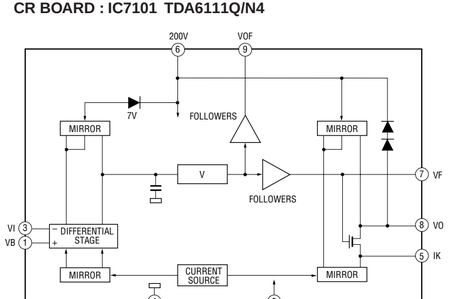
– CG Board –



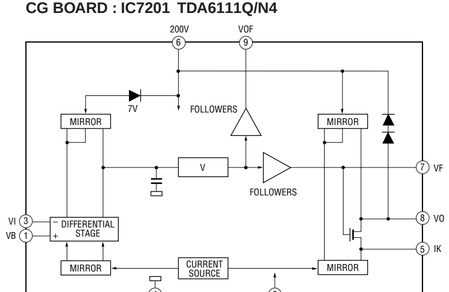
• CR BOARD WAVEFORMS



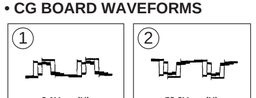
CR BOARD : IC7101 TDA6111Q/N4

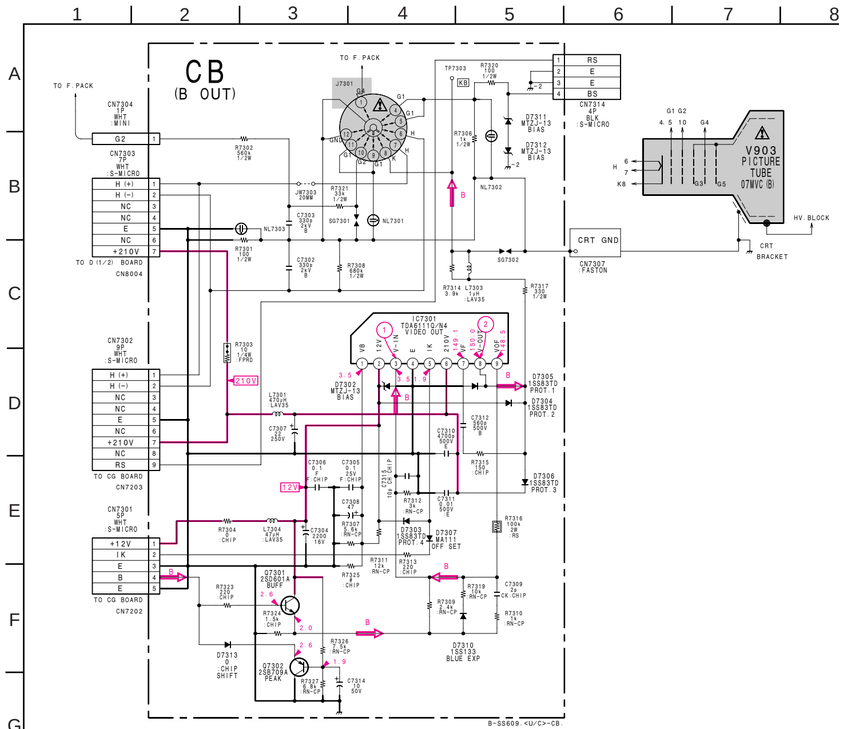


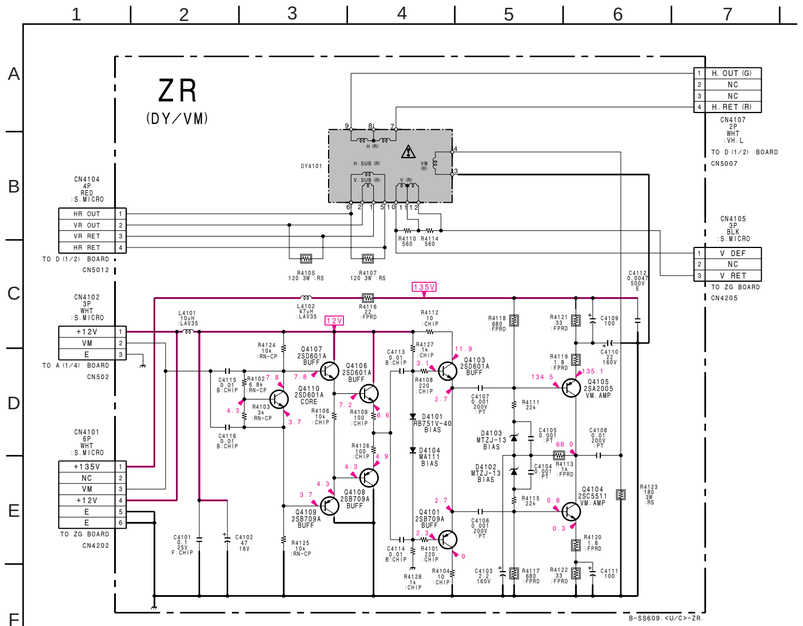
CG BOARD : IC7201 TDA6111Q/N4



• CG BOARD WAVEFORMS

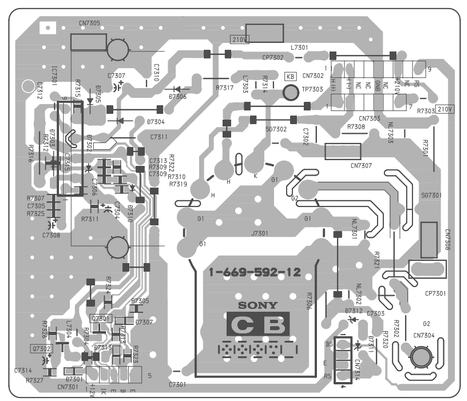




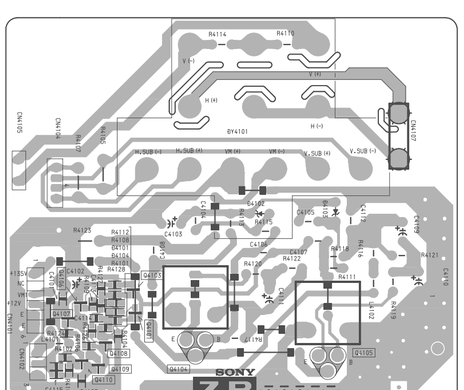


CB [B OUT] **ZR** [DY/VM]

– CB Board –



– ZR Board –

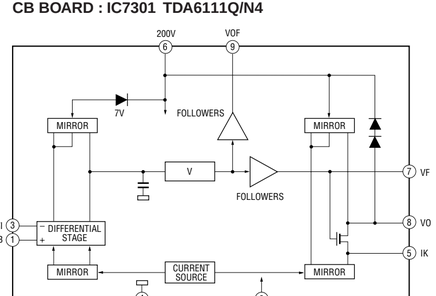


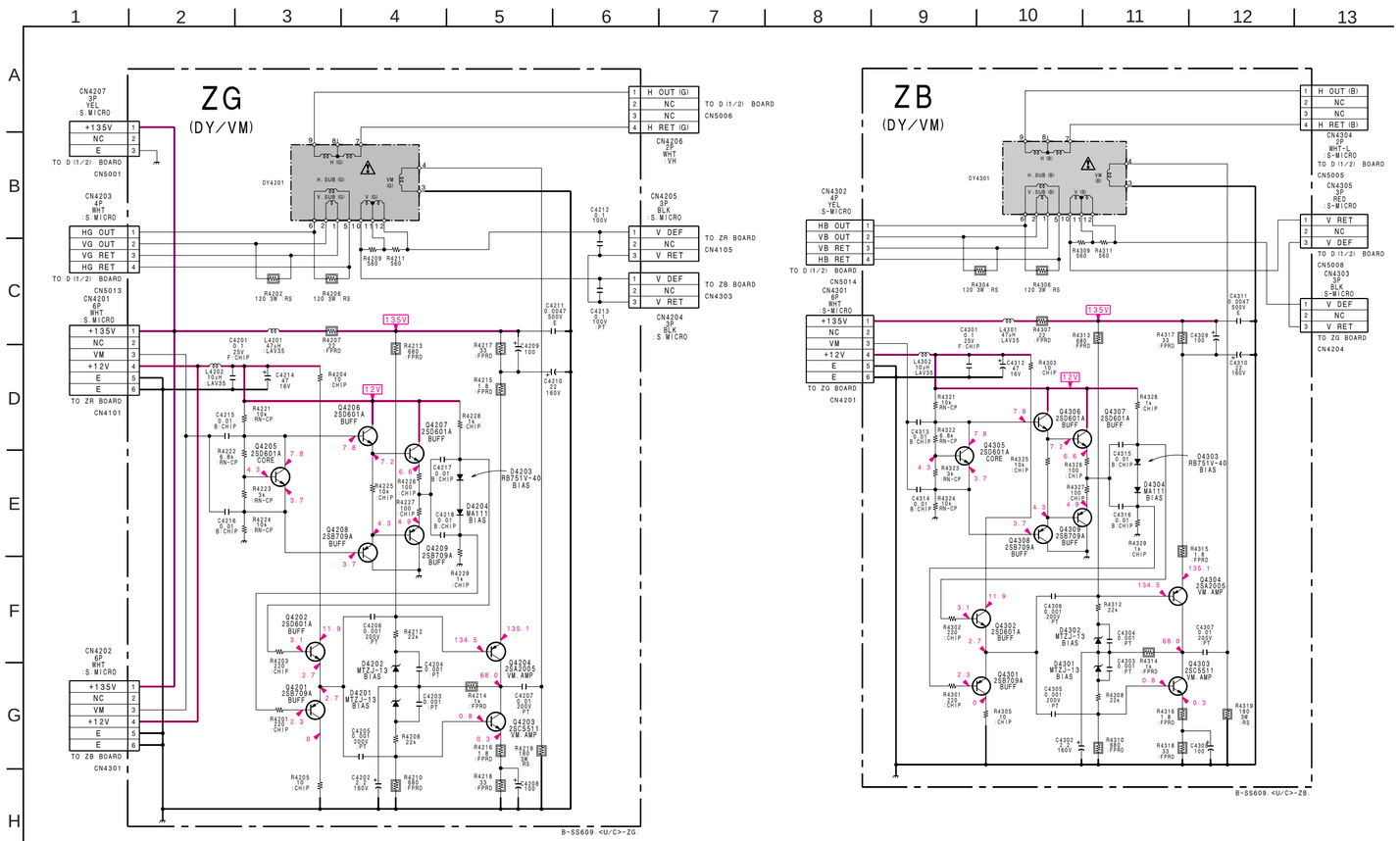
• CB BOARD WAVEFORMS

① 2.1Vp-p (H)

② 58.0Vp-p (H)

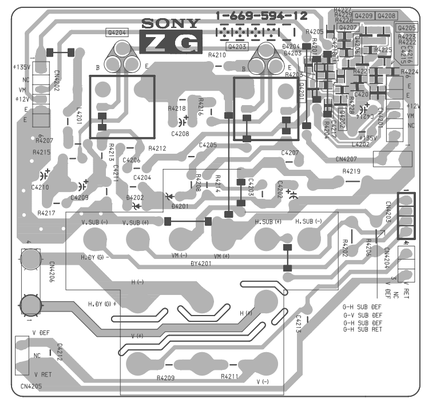
CB BOARD : IC7301 TDA6111Q/N4



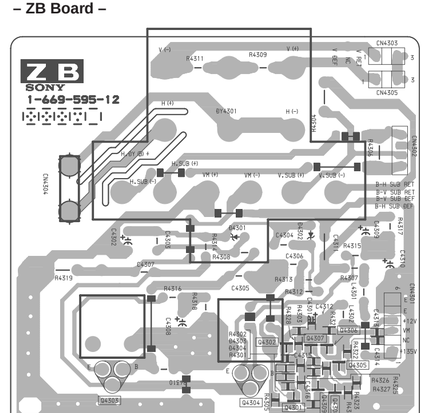


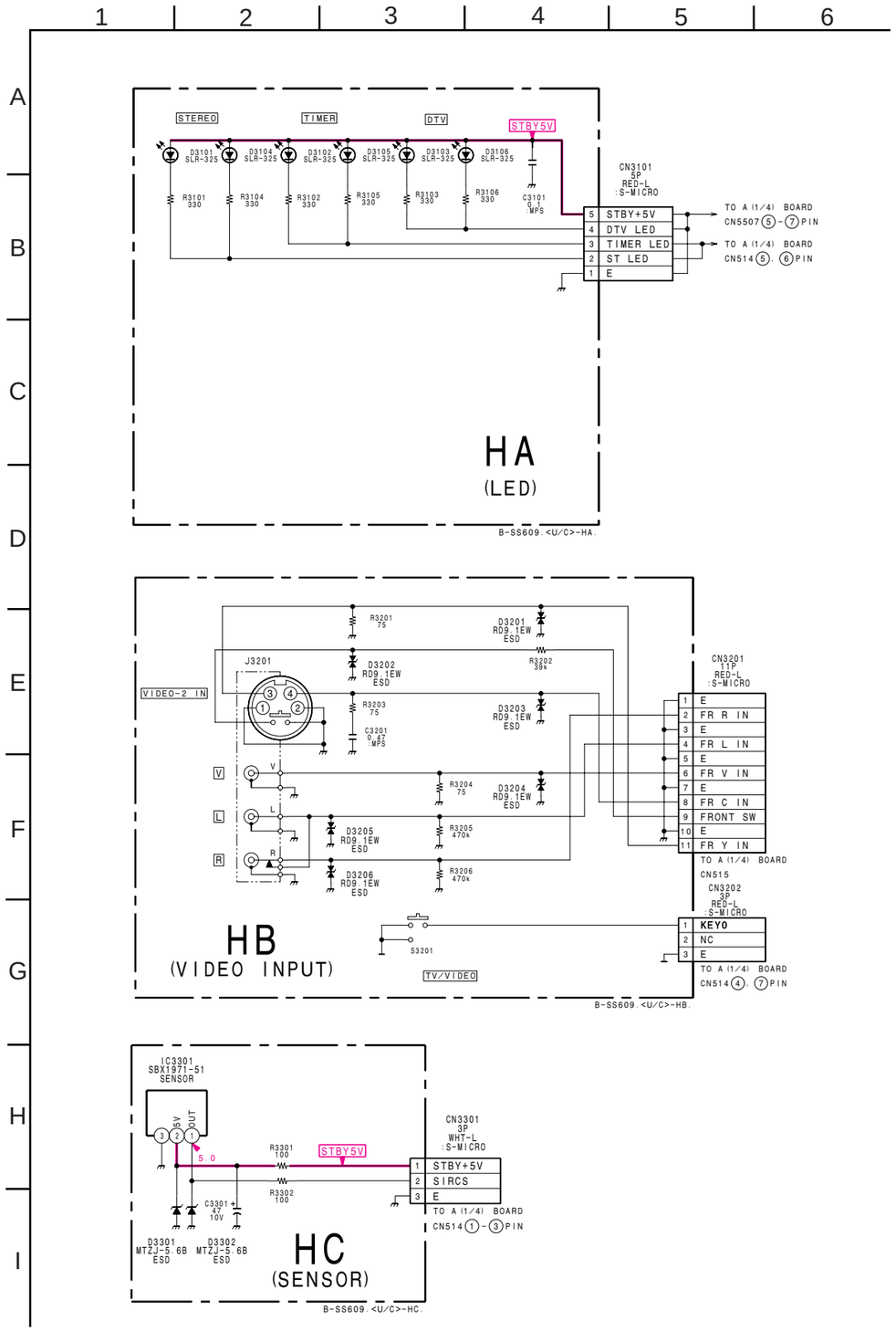
ZG [DY/VM] **ZB** [DY/VM]

– ZG Board –



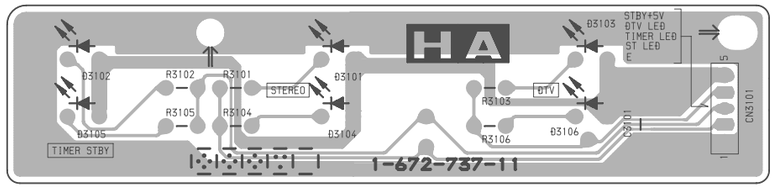
– ZB Board –



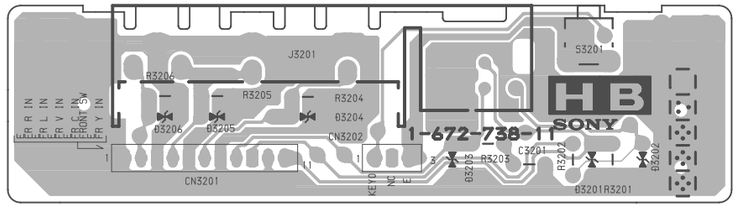


HA [LED] **HB** [VIDEO INPUT] **HC** [SENSOR]

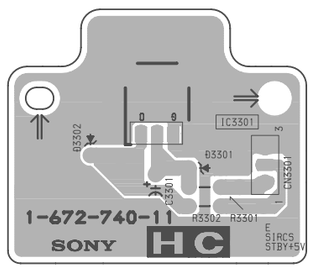
– HA Board –

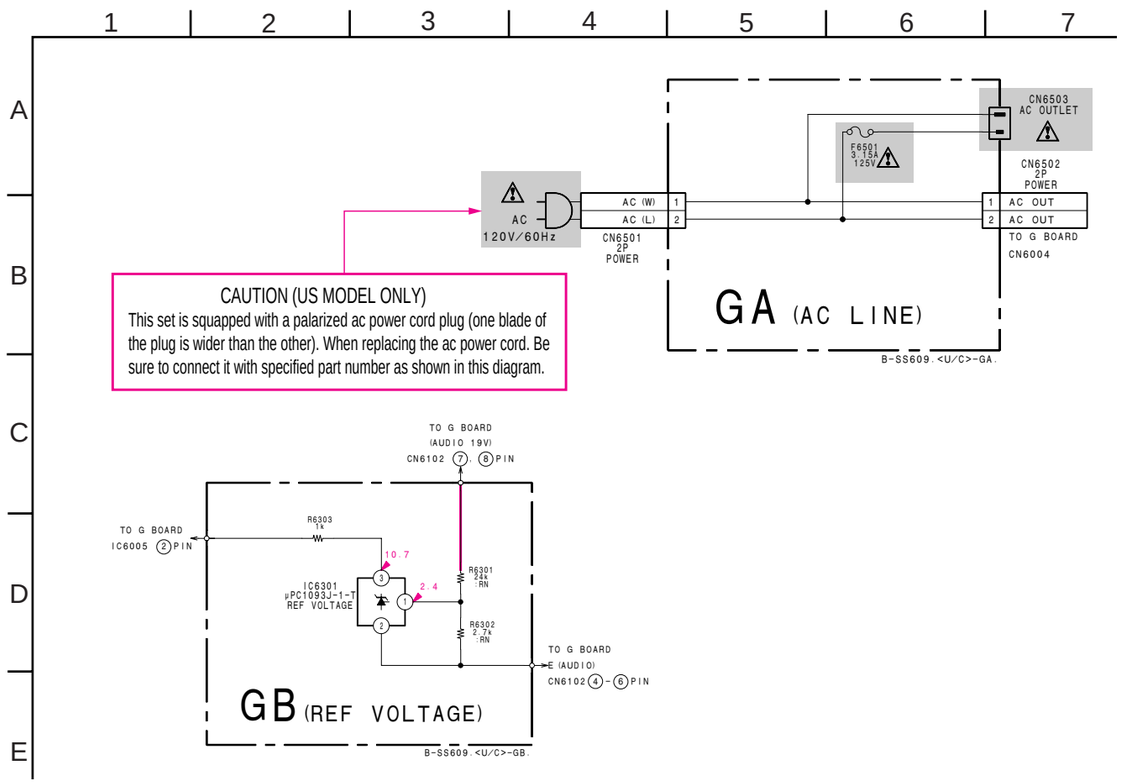


– HB Board –



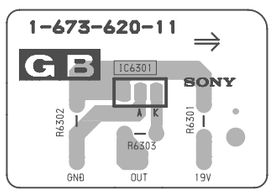
– HC Board –



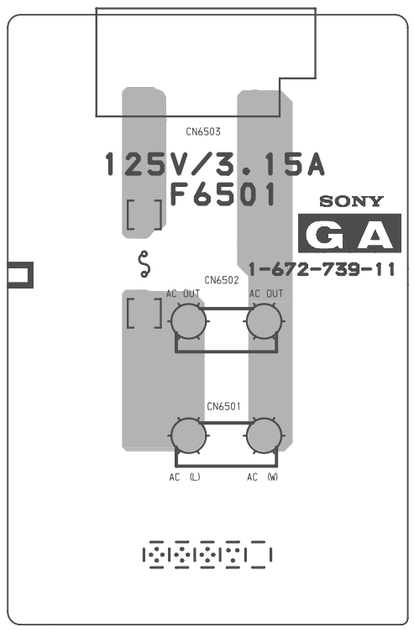


GB [REF VOLTAGE] GA [AC LINE]

– GB Board –



– GA Board –

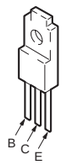


Schematic diagram
← HA HB HC board

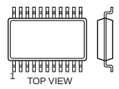
Schematic diagram
GA GB board →

6-5. SEMICONDUCTORS

BA05T

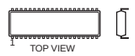


BA3129F-E2
MC74HC32AF
MC74HC74AFEL
NJM2058M-TE2
SN74HC00ANS
SN74HC05ANS
TLC2932IPW



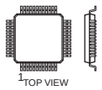
14pin SOP

CA0007AD
IR2112
NJM2058D



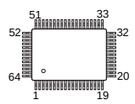
14pin DIP

CM0006AF

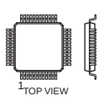


80pin QFP

CXA1845Q
CXP85840A-027Q
CXP85856A-022Q
CXP86324-016Q
MB90091A-150

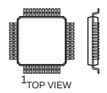


CXA2018AQ-T6



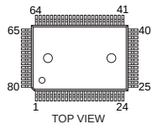
48pin QFP

CXA2019AQ-T4

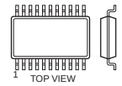


40pin QFP

CXA2101AQ
CXD2303AQ-TL
NJW1103FC3

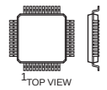


CXA2119M
CXD2053AM-T6
MN47V77ST1



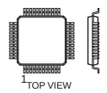
28pin SOP

CXD2075Q
CXD2079Q



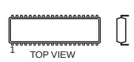
208pin QFP

CXD2087Q



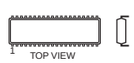
240pin QFP

IR3M02A



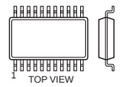
16pin DIP

LA7856A



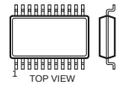
22pin DIP

LM358D
LM6171BIMX
M24C08-MN6T
M24C64-MN6T
TC7W08F
TC7W53FU(TE12R)
TC7W66FU(TE12R)
UPC4570G2-E2



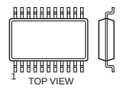
8pin SOP

LM393PS



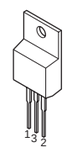
8pin SOP

MC14053BF
MC74ACT157DR2
MC74HC4052F
MC74HC4053F
NJM2145M-TE2
TC74HC4538AF
UPD6376GS-E2

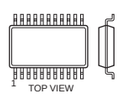


16pin SOP

MC7905CT

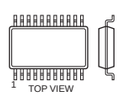


MSM51426C-60JS



40pin SOP

MSM548332-25TS-K

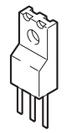


44pin SOP

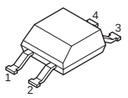
M5218AP
TL1591CP
TOP209P
UPC358C
UPC393C

8pin DIP

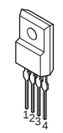
NJM7912FA



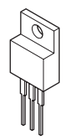
PC123F2



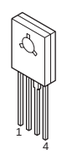
PQ05RF21



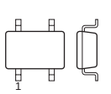
PQ09RF21
TA7805S
TA7812S



PQ30RV21

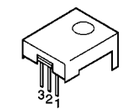


PST9143NL
TC7SET04FU(TE85R)
TC7SET08FU(TE85L)
TC7SH04F(TE85L)

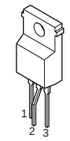


5pin CHIP

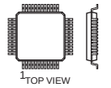
SBX1780-51(10)



SE-135N

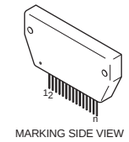


SN74HC163ANS

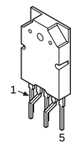


16pin SOP

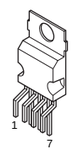
STK392-020



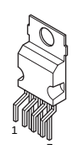
STR-F6612



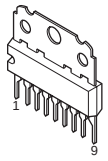
STV9379



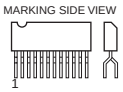
TDA2052



TDA6111Q / N4

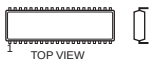


TDA7265



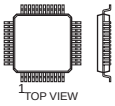
11pin ZIP

TDA7312



30pin DIP

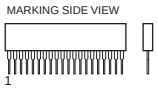
TLC5733AIPM



64pin QFP

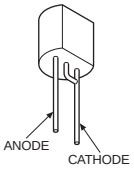
UPC1093J-1-T

UPC1406HA

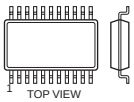


8pin SIP

UPC574J

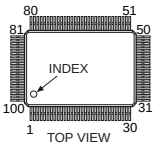


UPC659AGS-E2

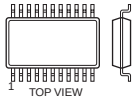


24pin SOP

UPD64081BGF-3BA

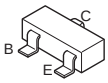


Z86130

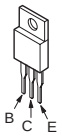


18pin SOP

DTC114EK
DTC144EKA
DTA144EK-T146
DTA144EKA-T146
2SA1162-G
2SA1226
2SC1623-L5L6
2SD601A-S

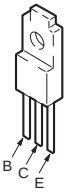


IRFI620G
IRFI640LF

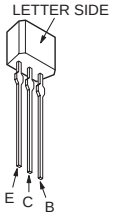


IRFI644G-LF36

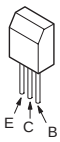
2SA2005
2SC5511



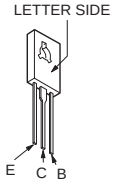
2SA1175-HFE
2SC2785-HFE



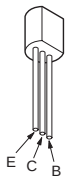
2SB733-34
2SB734-34
2SD774-34



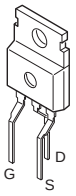
2SC2688-LK



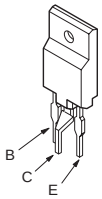
2SC2878-AB



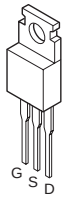
2SC3997-YB
2SC3997S-SONY-YB



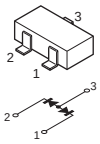
2SC4632LS-CB7



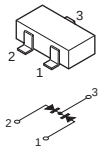
2SK2251-01-F19



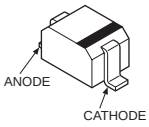
DAP202K



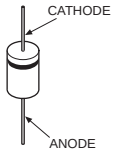
DAN202K



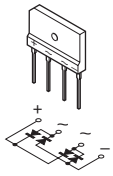
DTZ10B
DTZ33B
DTZ5.1B
MA111-TX
RD5.6S-B
UDZ-TE-17-7.5B



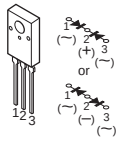
D1NL20U-TR



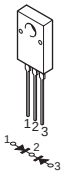
D1NL40-TA2
D4SBS4-F
RBV-1506



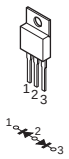
D10SC6MR
D8LC20U-4015



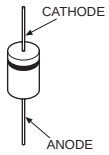
D10SC6M-4012



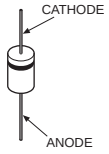
D25SC6MF04
D25SC6MRF04



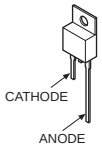
EGP20G
EL1Z
GP08D
MTZJ-T-77-3.9
MTZJ-T-77-9.1A
P6KE200AG23
RGP02-20EL-6394
S2L40F
UF4005PKG23
1SS83
11ES4-TA1B



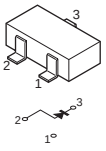
ERC04-06SE
ERC06-15S
ERC91-02
1SS133T-77



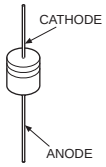
ERD08M-15



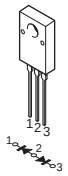
MA3091
MA3150H-TX
MA3220M-TX
RD13M-B3
RD5.1M-B2



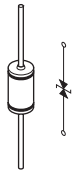
MTZJ-13
MTZJ-33B
MTZJ-33C
MTZJ-7.5B
MTZJ-T-77-15
RD10ES-B1
RD12ES-B2
RD20ES-B2
RD24ES-B1
RD5.6ESB2



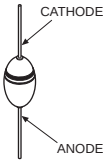
RB751V-40TE-17



RD9.1EW



U05G
V09G



SECTION 7
EXPLODED VIEWS

NOTE:

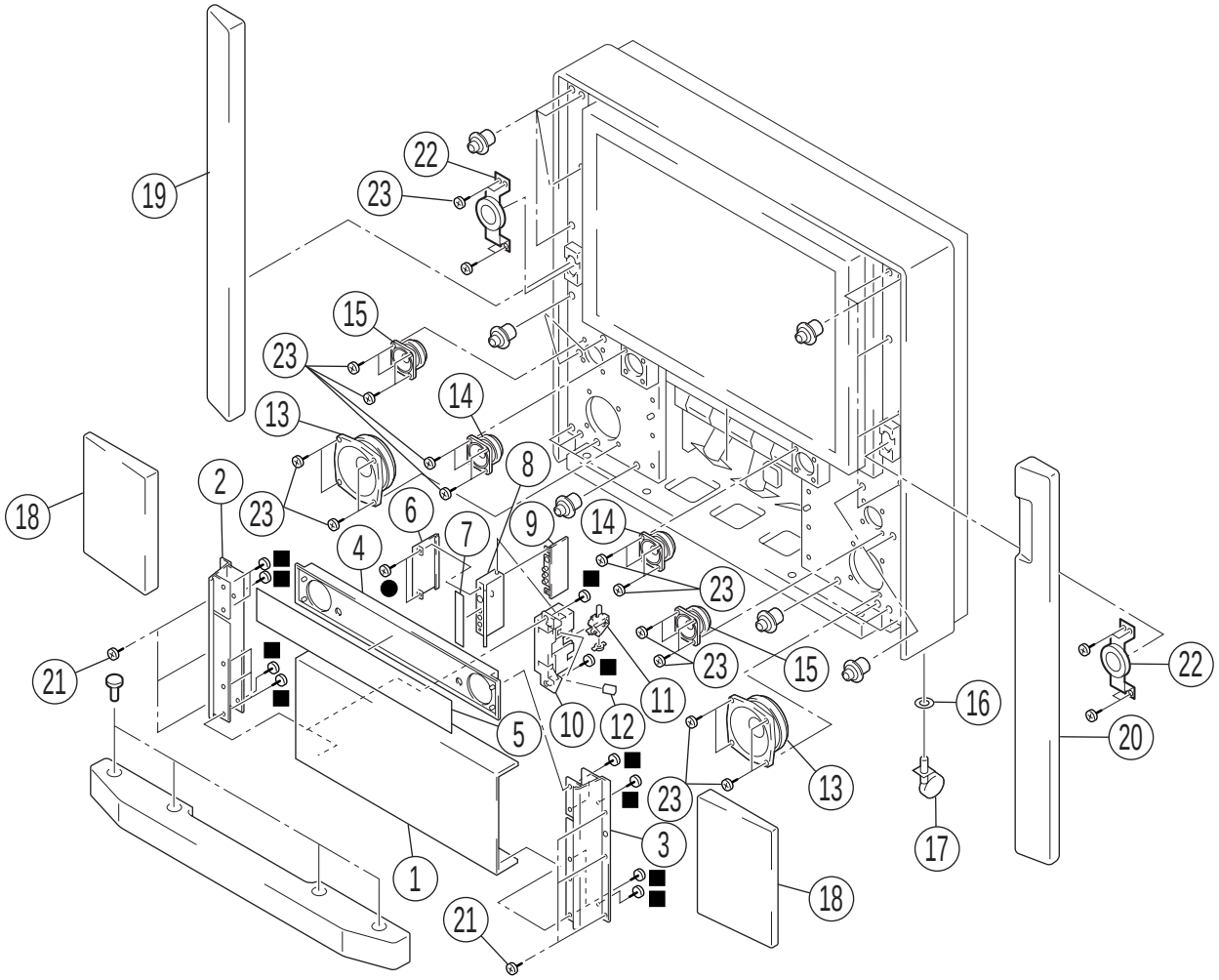
- Items with no part number and no description are not stocked because they are seldom required for routine service
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark ⚠ are critial for safety.
Replace only with part number specified.

Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite.
Ne les remplacer que par une piece portant le numero specifie.

7-1. COVER (LOWER SECTION)

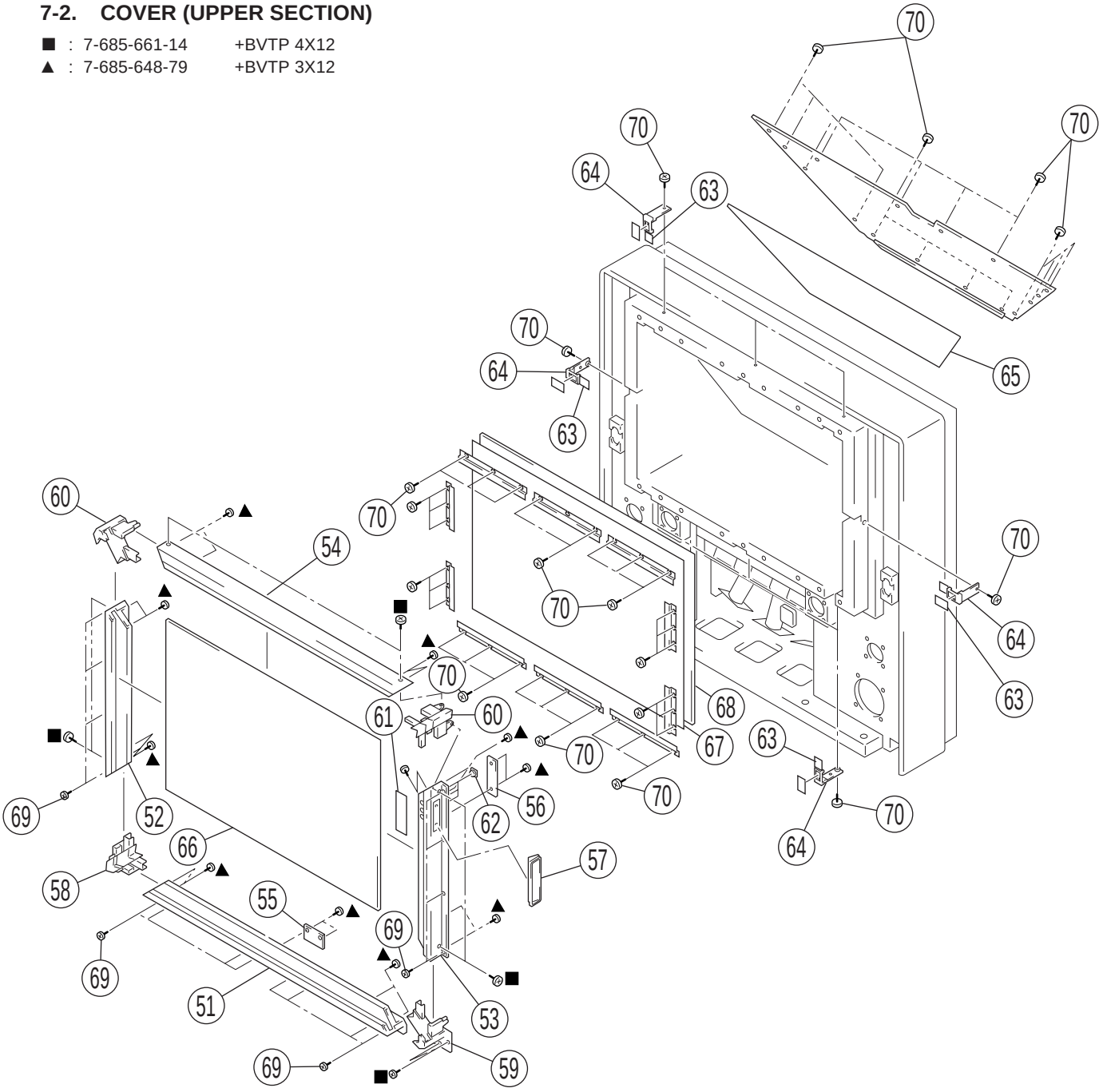
● : 7-682-249-04 +K 3X10
■ : 7-685-661-14 +BVTP 4X12



REF. NO.		PART NO.	DESCRIPTION	REMARK
1		4-069-098-01	PANEL, FRONT	
2		4-069-099-01	HOLDER (L), FRONT PANEL	
3		4-069-100-01	HOLDER (R), FRONT PANEL	
4		4-069-174-01	PANEL, CENTER SPEAKER	
5		4-069-093-01	SHEET, CENTER SPEAKER	
6		4-069-101-01	COVER, HB	
7		4-069-167-01	SHEET, HB	
8	*	4-069-169-01	BRACKET, HB	
9	*	A-1372-592-A	HB BOARD, COMPLETE	
10	*	4-069-170-01	HOLDER, HB	
11		4-069-092-01	HINGE, HB	
12		4-047-464-01	CATCHER, PUSH	
13		1-529-272-11	SPEAKER (16cm)	
14		1-529-273-11	SPEAKER (8cm)	
15		1-529-274-11	SPEAKER (2cm)	
16		4-030-850-01	SOCKET, CASTER	
17		4-040-508-01	CASTER	
18		X-4036-441-1	GRILLE ASSY, WOOFER SPEAKER	
19		X-4036-443-1	GRILLE (L) ASSY, SIDE SPEAKER	
20		X-4036-442-1	GRILLE (R) ASSY, SIDE SPEAKER	
21		4-069-708-01	SCREW (1/4 -20)	
22		1-529-349-11	SPEAKER (10cm)	
23		4-378-522-31	SCREW (4X20), TAPPING	

7-2. COVER (UPPER SECTION)

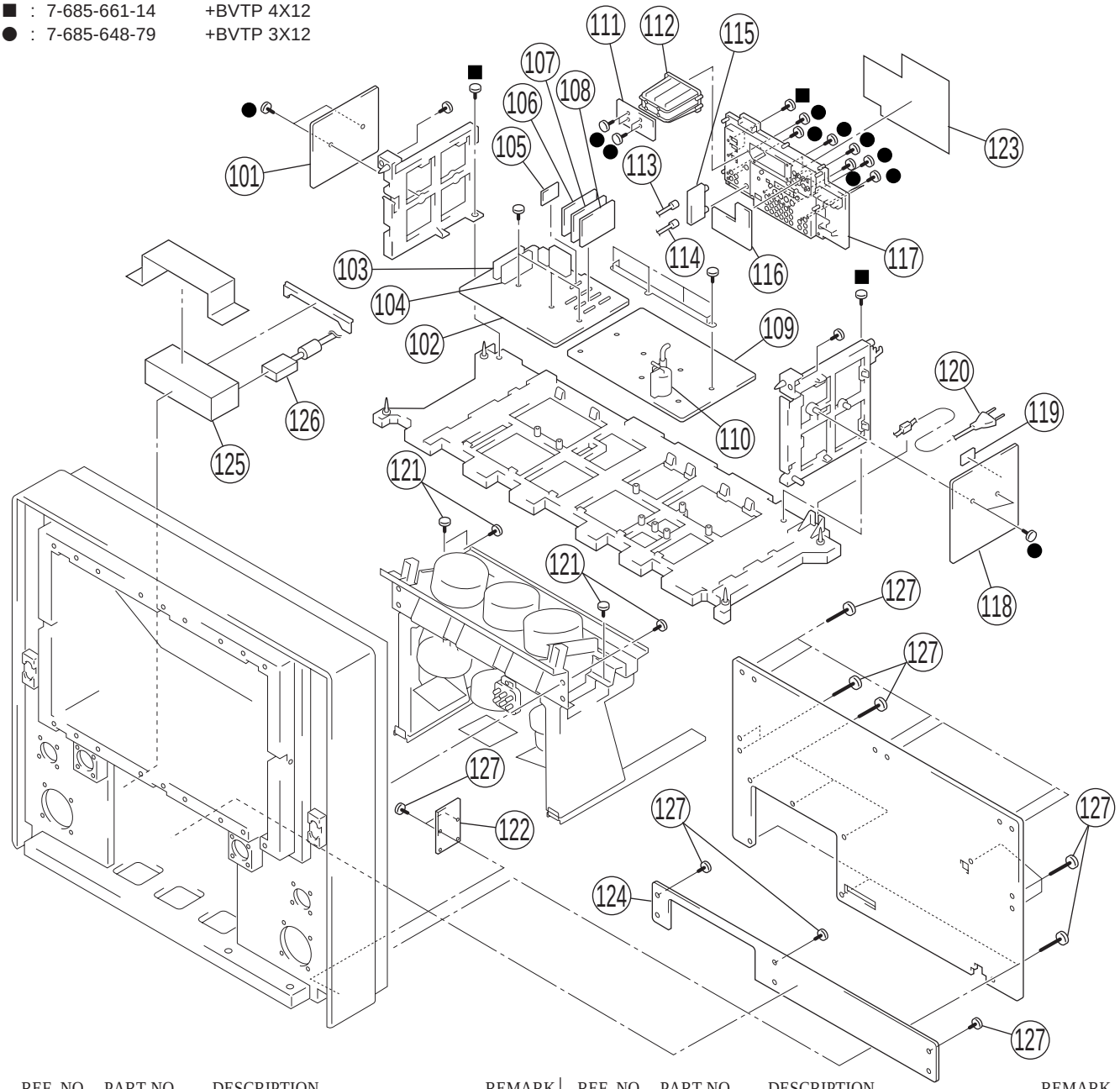
■ : 7-685-661-14 +BVTP 4X12
▲ : 7-685-648-79 +BVTP 3X12



REF. NO.		PART NO.	DESCRIPTION	REMARK
51		X-4036-440-1	FRAME ASSY, SCREEN (LOWER)	
52		4-069-164-01	FRAME (LEFT), SCREEN	
53		4-069-163-01	FRAME (RIGHT), SCREEN	
54		4-069-162-01	FRAME (UPPER), SCREEN	
55	*	A-1372-591-A	HC BOARD, COMPLETE	
56	*	A-1372-590-A	HA BOARD, COMPLETE	
57		1-418-259-11	PANEL, CONTROL	
58		4-069-171-01	BLOCK (LOWER L), CORNER	
59		4-069-166-01	BLOCK (LOWER R), CORNER	
60		4-069-165-01	BLOCK (U), CORNER	
61		4-069-172-01	LABEL, LED	
62		4-069-090-01	GUIDE, LED	
63		1-528-911-11	BATTERY, SOLAR	
64	*	4-063-422-01	BRACKET, SENSOR	
65		4-069-158-01	MIRROR (65W), REFLECTION	
66		8-208-150-05	CS-65	
67		4-068-912-11	PLATE (L), DIFFUSION	
68		4-068-913-11	PLATE (F), DIFFUSION	
69		4-052-894-01	SCREW (4X20), HEAD TAPPING	
70		4-378-522-31	SCREW (4X20), TAPPING	

7-3. CHASSIS

■ : 7-685-661-14 +BVTP 4X12
● : 7-685-648-79 +BVTP 3X12



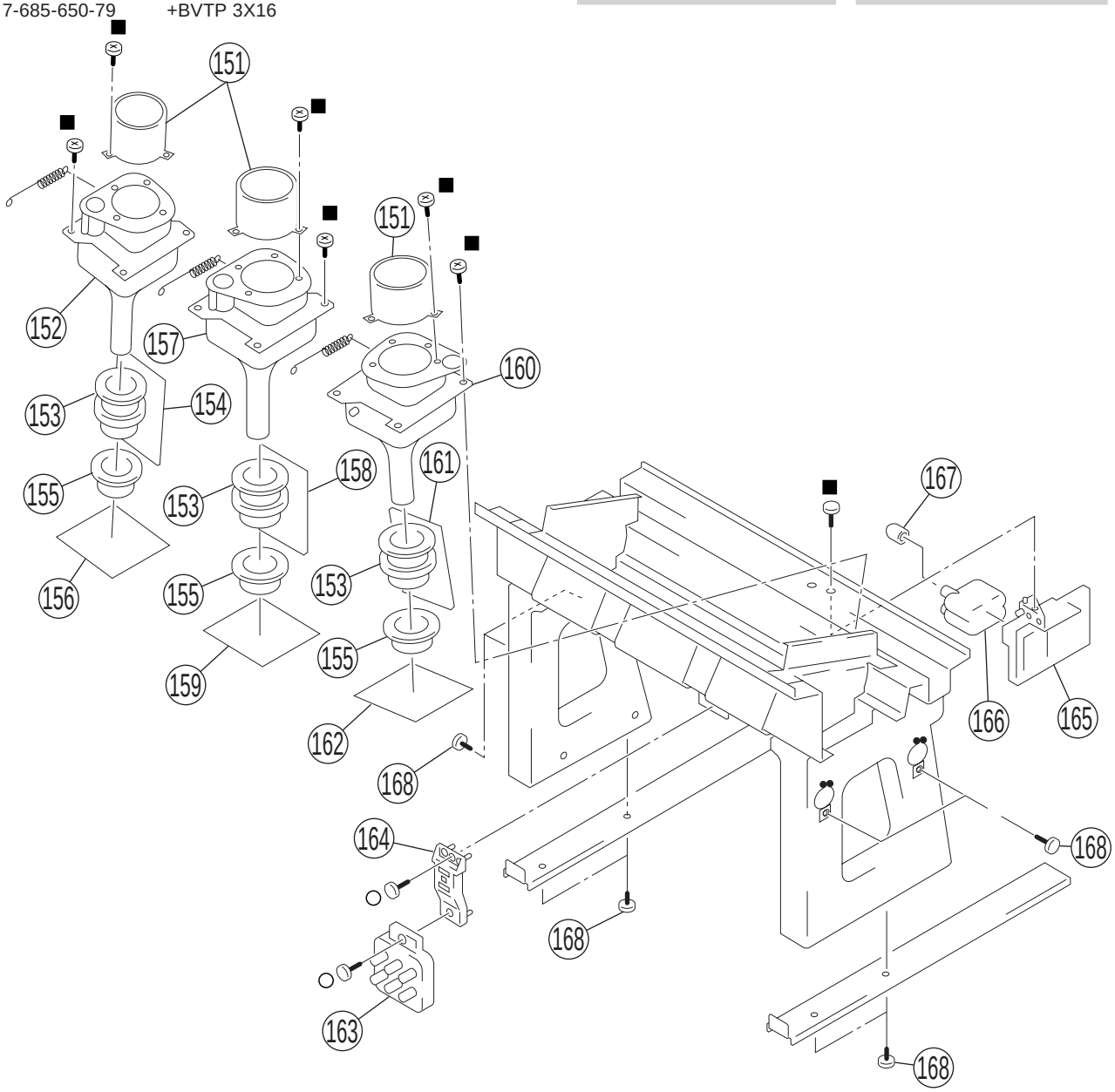
REF. NO.		PART NO.	DESCRIPTION	REMARK
101	*	A-1380-573-A	K BOARD, COMPLETE	
102	*	A-1298-773-A	A BOARD, COMPLETE	
103		8-598-431-00	TUNER, FSS BTF-WA411	
104		8-598-431-00	TUNER, FSS BTF-WA411	
105	*	A-1294-476-A	AW BOARD, COMPLETE	
106	*	A-1131-397-A	BM BOARD, COMPLETE	
107	*	A-1131-396-A	BR BOARD, COMPLETE	
108	*	A-1131-395-A	BD BOARD, COMPLETE	
109	*	A-1343-620-A	D BOARD, COMPLETE	
110	⚠	1-453-285-11	FBT ASSY, NX-4006//X4P	
111	*	A-1373-719-A	UA BOARD, COMPLETE	
112	*	4-069-213-01	COVER, UH	
113	*	1-556-945-21	CABLE, P-P	
114	*	1-557-056-31	CABLE, P-P	
115		1-251-321-12	SELECTOR, ANTENNA	
116	*	A-1373-720-A	UB BOARD, COMPLETE	
117		4-065-812-11	TERMINAL BOARD (ASSY)	
118	*	A-1316-444-A	G BOARD, COMPLETE	
119	*	A-1311-746-A	GB BOARD, COMPLETE	
120	⚠	1-783-595-11	CORD, NOISE FILTER WITH POWER	
121		4-052-894-01	SCREW (4X20), HEAD TAPPING	
122	*	A-1311-733-A	GA BOARD, COMPLETE	
123		4-063-425-01	LABEL (B), TERMINAL	
124	*	4-069-159-01	REAR BOARD, STB	
125	*	1-761-194-11	DTV-STB (SET TOP BOX)	
126		1-783-979-21	CABLE ASSY (EVC CONNECTOR X2)	
127		4-378-522-31	SCREW (4X20), TAPPING	

Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

7-4. PICTURE TUBE

■ : 7-685-661-14 +BVTP 4X12
○ : 7-685-650-79 +BVTP 3X16



REF. NO.		PART NO.	DESCRIPTION	REMARK
151		4-065-715-01	LENS (DELTA 37.AB)	
152	⚠	8-733-591-05	07MVC4(R), PICTURE, TUBE	
153	⚠	1-451-492-11	DEFELECTION YOKE	
154	*	A-1390-834-A	ZR BOARD, COMPLETE	
155	⚠	1-452-790-21	NECK ASSY	
156	*	A-1331-887-A	CR BOARD, COMPLETE	
157	⚠	8-733-592-05	07MVC2(G), PICTURE TUBE	
158	*	A-1390-835-A	ZG BOARD, COMPLETE	
159	*	A-1331-888-A	CG BOARD, COMPLETE	
160	⚠	8-733-590-05	07MVC4(B), PICTURE TUBE	
161	*	A-1390-836-A	ZB BOARD, COMPLETE	
162	*	A-1331-889-A	CB BOARD, COMPLETE	
163	⚠	1-223-925-11	RESISTOR ASSY (HIGH-VOLTAGE)	
164	*	4-063-403-01	BRACKET, FOCUS PACK	
165	*	4-057-596-01	BRACKET, HV	
166	⚠	8-598-955-12	BLOCK ASSY, HIGH-VOLTAGE	
167		4-373-137-01	CAP (Z), RUBBER	
168		4-378-522-31	SCREW (4X20), TAPPING	

SECTION 8
ELECTRICAL PARTS LIST

The components identified by shading and mark ⚠ are critial for safety.
Replace only with part number specified.

Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite.
Ne les remplacer que par une piece portant le numero specifie.

When indicating parts by reference number, please include the board name.

- The components identified by in ⊠ this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

RESISTORS
- All resistors are in ohms
- F : nonflammable

- CAPACITORS
  PF : μμ F
- There are some cases the reference number on one board overlaps on the other board. Therefore, when ordering parts by the reference number, please include the board name.

REF. NO.	PART NO.	DESCRIPTION			REMARK
*	A-1131-395-A	BD BOARD, COMPLETE			
		**********			
		<CAPACITOR>			
C1702	1-164-690-91	CERAMIC CHIP	0.0022μF	5%	50V
C1704	1-163-145-00	CERAMIC CHIP	0.0015μF	5%	50V
C1705	1-164-346-11	CERAMIC CHIP	1μF		16V
C1707	1-163-038-91	CERAMIC CHIP	0.1μF		25V
C1708	1-104-664-11	ELECT	47μF	20%	25V
C1709	1-126-964-11	ELECT	10μF	20%	50V
C1710	1-164-346-11	CERAMIC CHIP	1μF		16V
C1711	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V
C1712	1-163-038-91	CERAMIC CHIP	0.1μF		25V
C1713	1-104-664-11	ELECT	47μF	20%	25V
C1714	1-164-346-11	CERAMIC CHIP	1μF		16V
C1716	1-164-690-91	CERAMIC CHIP	0.0022μF	5%	50V
C1718	1-164-690-91	CERAMIC CHIP	0.0022μF	5%	50V
C1719	1-163-237-11	CERAMIC CHIP	27PF	5%	50V
C1721	1-163-038-91	CERAMIC CHIP	0.1μF		25V
C1722	1-104-664-11	ELECT	47μF	20%	25V
C1723	1-163-038-91	CERAMIC CHIP	0.1μF		25V
C1724	1-104-664-11	ELECT	47μF	20%	25V
C1725	1-163-231-11	CERAMIC CHIP	15PF	5%	50V
C1727	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V
C1729	1-163-038-91	CERAMIC CHIP	0.1μF		25V
C1730	1-104-664-11	ELECT	47μF	20%	25V
C1736	1-164-690-91	CERAMIC CHIP	0.0022μF	5%	50V
C1738	1-163-145-00	CERAMIC CHIP	0.0015μF	5%	50V
C1739	1-104-664-11	ELECT	47μF	20%	25V
C1740	1-163-038-91	CERAMIC CHIP	0.1μF		25V
C1744	1-163-038-91	CERAMIC CHIP	0.1μF		25V
C1745	1-104-664-11	ELECT	47μF	20%	25V
C1746	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V
C1747	1-163-038-91	CERAMIC CHIP	0.1μF		25V
C1748	1-104-664-11	ELECT	47μF	20%	25V
C1749	1-163-038-91	CERAMIC CHIP	0.1μF		25V
C1750	1-104-664-11	ELECT	47μF	20%	25V
C1752	1-164-690-91	CERAMIC CHIP	0.0022μF	5%	50V
C1754	1-164-690-91	CERAMIC CHIP	0.0022μF	5%	50V
C1757	1-163-038-91	CERAMIC CHIP	0.1μF		25V
C1758	1-104-664-11	ELECT	47μF	20%	25V
C1759	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V
C1761	1-163-038-91	CERAMIC CHIP	0.1μF		25V
C1762	1-104-664-11	ELECT	47μF	20%	25V
C1763	1-104-664-11	ELECT	47μF	20%	25V
C1764	1-163-038-91	CERAMIC CHIP	0.1μF		25V
C1767	1-164-690-91	CERAMIC CHIP	0.0022μF	5%	50V
C1769	1-163-145-00	CERAMIC CHIP	0.0015μF	5%	50V
C1772	1-115-339-11	CERAMIC CHIP	0.1μF	10%	50V
C1773	1-163-038-91	CERAMIC CHIP	0.1μF		25V
C1774	1-104-664-11	ELECT	47μF	20%	25V
C1775	1-164-161-11	CERAMIC CHIP	0.0022μF	10%	50V
C1776	1-104-664-11	ELECT	47μF	20%	25V
C1777	1-163-038-91	CERAMIC CHIP	0.1μF		25V
C1779	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V
C1780	1-163-038-91	CERAMIC CHIP	0.1μF		25V
C1781	1-104-664-11	ELECT	47μF	20%	25V
C1784	1-164-690-91	CERAMIC CHIP	0.0022μF	5%	50V
C1786	1-164-690-91	CERAMIC CHIP	0.0022μF	5%	50V
C1787	1-163-038-91	CERAMIC CHIP	0.1μF		25V
C1788	1-163-038-91	CERAMIC CHIP	0.1μF		25V
C1789	1-104-664-11	ELECT	47μF	20%	25V
C1790	1-104-664-11	ELECT	47μF	20%	25V
C1791	1-163-038-91	CERAMIC CHIP	0.1μF		25V
C1792	1-104-664-11	ELECT	47μF	20%	25V
C1793	1-104-664-11	ELECT	47μF	20%	25V
C1794	1-163-038-91	CERAMIC CHIP	0.1μF		25V
C1796	1-163-038-91	CERAMIC CHIP	0.1μF		25V
C1797	1-104-664-11	ELECT	47μF	20%	25V
C1798	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V
C1799	1-163-038-91	CERAMIC CHIP	0.1μF		25V
C1800	1-163-038-91	CERAMIC CHIP	0.1μF		25V
C1801	1-104-664-11	ELECT	47μF	20%	25V
C1802	1-163-038-91	CERAMIC CHIP	0.1μF		25V
C1803	1-164-690-91	CERAMIC CHIP	0.0022μF	5%	50V
C1804	1-163-038-91	CERAMIC CHIP	0.1μF		25V
C1805	1-104-664-11	ELECT	47μF	20%	25V
C1806	1-163-038-91	CERAMIC CHIP	0.1μF		25V
C1807	1-104-664-11	ELECT	47μF	20%	25V
C1808	1-163-038-91	CERAMIC CHIP	0.1μF		25V

REF. NO.	PART NO.	DESCRIPTION			REMARK
C1809	1-104-664-11	ELECT	47µF	20%	25V
C1810	1-104-664-11	ELECT	47µF	20%	25V
C1811	1-104-664-11	ELECT	47µF	20%	25V
C1812	1-104-664-11	ELECT	47µF	20%	25V
C1814	1-104-664-11	ELECT	47µF	20%	25V
C1815	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C1816	1-104-664-11	ELECT	47µF	20%	25V
C1817	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C1818	1-104-664-11	ELECT	47µF	20%	25V
C1819	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C1820	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C1821	1-115-339-11	CERAMIC CHIP	0.1µF	10%	50V
C1822	1-126-934-11	ELECT	220µF	20%	16V
C1823	1-104-664-11	ELECT	47µF	20%	25V
C1824	1-104-664-11	ELECT	47µF	20%	25V
C1825	1-104-664-11	ELECT	47µF	20%	25V
C1827	1-126-934-11	ELECT	220µF	20%	16V
C1828	1-208-778-11	RES,CHIP	680	0.50%	1/10W
C1829	1-208-778-11	RES,CHIP	680	0.50%	1/10W
C1830	1-115-339-11	CERAMIC CHIP	0.1µF	10%	50V
C1831	1-104-664-11	ELECT	47µF	20%	25V
C1832	1-104-664-11	ELECT	47µF	20%	25V
C1833	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C1834	1-104-664-11	ELECT	47µF	20%	25V
C1835	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C1836	1-104-664-11	ELECT	47µF	20%	25V
C1837	1-104-664-11	ELECT	47µF	20%	25V
C1838	1-104-664-11	ELECT	47µF	20%	25V
C1839	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C1840	1-104-664-11	ELECT	47µF	20%	25V
C1841	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C1842	1-104-664-11	ELECT	47µF	20%	25V
C1843	1-104-664-11	ELECT	47µF	20%	25V
C1844	1-104-664-11	ELECT	47µF	20%	25V
C1845	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C1846	1-104-664-11	ELECT	47µF	20%	25V
C1847	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C1848	1-208-778-11	RES,CHIP	680	0.50%	1/10W
C1849	1-208-778-11	RES,CHIP	680	0.50%	1/10W
C1850	1-208-778-11	RES,CHIP	680	0.50%	1/10W
C1851	1-208-778-11	RES,CHIP	680	0.50%	1/10W
C1852	1-208-778-11	RES,CHIP	680	0.50%	1/10W
C1853	1-208-778-11	RES,CHIP	680	0.50%	1/10W
C1854	1-208-778-11	RES,CHIP	680	0.50%	1/10W
C1857	1-126-967-11	ELECT	47µF	20%	50V
C1858	1-126-967-11	ELECT	47µF	20%	50V
C1859	1-164-346-11	CERAMIC CHIP	1µF		16V
C1860	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C1861	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C1862	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C1863	1-163-001-11	CERAMIC CHIP	220PF	10%	50V
C1864	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C1870	1-104-664-11	ELECT	47µF	20%	25V
C1871	1-104-664-11	ELECT	47µF	20%	25V
C1872	1-104-664-11	ELECT	47µF	20%	25V
C1873	1-104-664-11	ELECT	47µF	20%	25V
C1874	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C1875	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C1876	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C1877	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C1878	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C1879	1-163-038-91	CERAMIC CHIP	0.1µF		25V

<CONNECTOR>

CN1701	1-573-301-21	CONNECTOR, BOARD TO BOARD	20P		
CN1702	1-573-301-21	CONNECTOR, BOARD TO BOARD	20P		

<DIODE>

D1701	8-719-404-50	DIODE	MA111-TX		
D1702	8-719-404-50	DIODE	MA111-TX		
D1703	8-719-404-50	DIODE	MA111-TX		
D1704	8-719-404-50	DIODE	MA111-TX		

<IC>

IC1701	8-759-398-25	IC	TC7SH04F(TE85L)		
IC1702	8-759-106-02	IC	UPC4570G2		
IC1703	8-752-903-20	IC	CXP86324-016Q		
IC1704	8-759-499-39	IC	M24C64-MN6T		
IC1705	8-759-106-02	IC	UPC4570G2		
IC1706	8-759-106-02	IC	UPC4570G2		
IC1707	8-759-546-26	IC	CM0006AF		
IC1708	8-759-106-02	IC	UPC4570G2		
IC1709	8-759-106-02	IC	UPC4570G2		
IC1710	8-759-106-02	IC	UPC4570G2		
IC1711	8-759-106-02	IC	UPC4570G2		
IC1712	8-759-032-20	IC	MC74HC32AF		
IC1713	8-759-546-22	IC	UPD6376GS-E2		
IC1714	8-759-546-22	IC	UPD6376GS-E2		
IC1715	8-759-546-22	IC	UPD6376GS-E2		
IC1716	8-759-367-69	IC	MC74HC74AFEL		
IC1718	8-759-352-91	IC	PST9143NL		
IC1719	8-759-546-22	IC	UPD6376GS-E2		
IC1720	8-759-546-22	IC	UPD6376GS-E2		
IC1721	8-759-546-22	IC	UPD6376GS-E2		
IC1722	8-759-295-09	IC	TLC2932IPW		
IC1723	8-759-485-79	IC	TC7SET08FU(TE85L)		
IC1724	8-759-546-22	IC	UPD6376GS-E2		
IC1725	8-759-485-79	IC	TC7SET08FU(TE85L)		

<CHIP CONDUCTOR>

JR1701	1-216-295-91	SHORT	0		
JR1702	1-216-295-91	SHORT	0		
JR1703	1-216-295-91	SHORT	0		
JR1704	1-216-295-91	SHORT	0		

<COIL>

L1701	1-215-417-00	METAL	680	1%	1/4W
L1703	1-410-470-11	INDUCTOR	10µH		

REF. NO.	PART NO.	DESCRIPTION			REMARK
L1704	1-410-470-11	INDUCTOR	10µH		
L1707	1-410-470-11	INDUCTOR	10µH		
L1708	1-410-470-11	INDUCTOR	10µH		
L1710	1-410-470-11	INDUCTOR	10µH		
L1711	1-215-417-00	METAL	680	1%	1/4W
L1713	1-410-470-11	INDUCTOR	10µH		
L1714	1-414-234-22	INDUCTOR CHIP	0µH		
L1715	1-410-470-11	INDUCTOR	10µH		
L1716	1-410-470-11	INDUCTOR	10µH		
L1719	1-410-470-11	INDUCTOR	10µH		
L1720	1-410-470-11	INDUCTOR	10µH		
L1721	1-414-234-22	INDUCTOR CHIP	0µH		
L1722	1-215-417-00	METAL	680	1%	1/4W
L1724	1-410-470-11	INDUCTOR	10µH		
L1725	1-414-234-22	INDUCTOR CHIP	0µH		
L1726	1-410-470-11	INDUCTOR	10µH		
L1729	1-414-234-22	INDUCTOR CHIP	0µH		
L1730	1-410-470-11	INDUCTOR	10µH		
L1731	1-410-470-11	INDUCTOR	10µH		
L1732	1-414-234-22	INDUCTOR CHIP	0µH		
L1733	1-414-234-22	INDUCTOR CHIP	0µH		
L1734	1-414-234-22	INDUCTOR CHIP	0µH		
L1735	1-414-234-22	INDUCTOR CHIP	0µH		
L1736	1-414-234-22	INDUCTOR CHIP	0µH		
L1737	1-414-234-22	INDUCTOR CHIP	0µH		
L1738	1-414-234-22	INDUCTOR CHIP	0µH		
L1739	1-414-234-22	INDUCTOR CHIP	0µH		
L1740	1-414-234-22	INDUCTOR CHIP	0µH		
L1741	1-414-234-22	INDUCTOR CHIP	0µH		
L1742	1-414-234-22	INDUCTOR CHIP	0µH		
L1743	1-414-234-22	INDUCTOR CHIP	0µH		
L1744	1-414-234-22	INDUCTOR CHIP	0µH		
L1745	1-414-234-22	INDUCTOR CHIP	0µH		
L1746	1-414-234-22	INDUCTOR CHIP	0µH		
L1750	1-414-234-22	INDUCTOR CHIP	0µH		
L1751	1-414-234-22	INDUCTOR CHIP	0µH		

<TRANSISTOR>

Q1701	1-801-806-11	TRANSISTOR	DTC144EKA-T146
Q1702	8-729-422-27	TRANSISTOR	2SD601A-Q
Q1703	8-729-900-53	TRANSISTOR	DTC114EK
Q1709	8-729-422-27	TRANSISTOR	2SD601A-Q
Q1710	8-729-422-27	TRANSISTOR	2SD601A-Q

<RESISTOR>

R1701	1-216-295-91	SHORT	0		
R1702	1-208-780-11	RES,CHIP	820	0.50%	1/10W
R1703	1-208-799-11	RES,CHIP	5.1K	0.50%	1/10W
R1704	1-216-295-91	SHORT	0		
R1705	1-216-025-91	RES,CHIP	100	5%	1/10W
R1706	1-216-025-91	RES,CHIP	100	5%	1/10W
R1707	1-216-025-91	RES,CHIP	100	5%	1/10W
R1708	1-216-025-91	RES,CHIP	100	5%	1/10W
R1709	1-216-041-00	RES,CHIP	470	5%	1/10W
R1710	1-216-025-91	RES,CHIP	100	5%	1/10W

REF. NO.	PART NO.	DESCRIPTION			REMARK
R1711	1-216-025-91	RES,CHIP	100	5%	1/10W
R1712	1-208-805-11	RES,CHIP	9.1K	0.50%	1/10W
R1713	1-216-041-00	RES,CHIP	470	5%	1/10W
R1714	1-208-799-11	RES,CHIP	5.1K	0.50%	1/10W
R1715	1-216-025-91	RES,CHIP	100	5%	1/10W
R1716	1-216-025-91	RES,CHIP	100	5%	1/10W
R1717	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R1718	1-216-025-91	RES,CHIP	100	5%	1/10W
R1719	1-216-025-91	RES,CHIP	100	5%	1/10W
R1720	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R1721	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1722	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R1723	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1724	1-216-025-91	RES,CHIP	100	5%	1/10W
R1725	1-216-295-91	SHORT	0		
R1726	1-208-780-11	RES,CHIP	820	0.50%	1/10W
R1727	1-216-033-00	RES,CHIP	220	5%	1/10W
R1728	1-216-033-00	RES,CHIP	220	5%	1/10W
R1729	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1730	1-208-850-11	RES,CHIP	680K	0.50%	1/10W
R1731	1-216-025-91	RES,CHIP	100	5%	1/10W
R1732	1-208-799-11	RES,CHIP	5.1K	0.50%	1/10W
R1733	1-216-025-91	RES,CHIP	100	5%	1/10W
R1735	1-216-025-91	RES,CHIP	100	5%	1/10W
R1736	1-216-025-91	RES,CHIP	100	5%	1/10W
R1737	1-208-805-11	RES,CHIP	9.1K	0.50%	1/10W
R1738	1-208-806-11	RES,CHIP	10K	0.50%	1/10W
R1739	1-208-799-11	RES,CHIP	5.1K	0.50%	1/10W
R1740	1-216-025-91	RES,CHIP	100	5%	1/10W
R1741	1-216-033-00	RES,CHIP	220	5%	1/10W
R1742	1-216-025-91	RES,CHIP	100	5%	1/10W
R1743	1-216-033-00	RES,CHIP	220	5%	1/10W
R1744	1-216-025-91	RES,CHIP	100	5%	1/10W
R1745	1-216-033-00	RES,CHIP	220	5%	1/10W
R1746	1-216-033-00	RES,CHIP	220	5%	1/10W
R1747	1-216-025-91	RES,CHIP	100	5%	1/10W
R1748	1-216-025-91	RES,CHIP	100	5%	1/10W
R1749	1-216-295-91	SHORT	0		
R1750	1-208-780-11	RES,CHIP	820	0.50%	1/10W
R1751	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1752	1-208-799-11	RES,CHIP	5.1K	0.50%	1/10W
R1753	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1754	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1755	1-216-025-91	RES,CHIP	100	5%	1/10W
R1756	1-208-805-11	RES,CHIP	9.1K	0.50%	1/10W
R1757	1-208-806-11	RES,CHIP	10K	0.50%	1/10W
R1758	1-208-799-11	RES,CHIP	5.1K	0.50%	1/10W
R1759	1-216-025-91	RES,CHIP	100	5%	1/10W
R1760	1-216-025-91	RES,CHIP	100	5%	1/10W
R1761	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1762	1-216-033-00	RES,CHIP	220	5%	1/10W
R1763	1-216-025-91	RES,CHIP	100	5%	1/10W
R1765	1-216-033-00	RES,CHIP	220	5%	1/10W
R1766	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1767	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1768	1-216-049-91	RES,CHIP	1K	5%	1/10W

REF. NO.	PART NO.	DESCRIPTION			REMARK
R1769	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1770	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1771	1-216-025-91	RES,CHIP	100	5%	1/10W
R1772	1-216-025-91	RES,CHIP	100	5%	1/10W
R1773	1-216-025-91	RES,CHIP	100	5%	1/10W
R1774	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1775	1-216-295-91	SHORT	0		
R1776	1-208-780-11	RES,CHIP	820	0.50%	1/10W
R1777	1-208-799-11	RES,CHIP	5.1K	0.50%	1/10W
R1778	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1779	1-216-071-00	RES,CHIP	8.2K	5%	1/10W
R1780	1-216-025-91	RES,CHIP	100	5%	1/10W
R1781	1-216-025-91	RES,CHIP	100	5%	1/10W
R1782	1-216-071-00	RES,CHIP	8.2K	5%	1/10W
R1783	1-216-033-00	RES,CHIP	220	5%	1/10W
R1784	1-216-025-91	RES,CHIP	100	5%	1/10W
R1785	1-216-025-91	RES,CHIP	100	5%	1/10W
R1786	1-208-805-11	RES,CHIP	9.1K	0.50%	1/10W
R1787	1-216-025-91	RES,CHIP	100	5%	1/10W
R1788	1-216-071-00	RES,CHIP	8.2K	5%	1/10W
R1789	1-208-806-11	RES,CHIP	10K	0.50%	1/10W
R1790	1-208-799-11	RES,CHIP	5.1K	0.50%	1/10W
R1791	1-216-025-91	RES,CHIP	100	5%	1/10W
R1792	1-216-025-91	RES,CHIP	100	5%	1/10W
R1793	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R1794	1-208-801-11	RES,CHIP	6.2K	0.50%	1/10W
R1795	1-216-037-00	RES,CHIP	330	5%	1/10W
R1796	1-216-295-91	SHORT	0		
R1797	1-208-780-11	RES,CHIP	820	0.50%	1/10W
R1798	1-208-799-11	RES,CHIP	5.1K	0.50%	1/10W
R1799	1-208-802-11	RES,CHIP	6.8K	0.50%	1/10W
R1800	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R1801	1-208-816-11	RES,CHIP	27K	0.50%	1/10W
R1802	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1803	1-208-805-11	RES,CHIP	9.1K	0.50%	1/10W
R1804	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R1805	1-208-806-11	RES,CHIP	10K	0.50%	1/10W
R1806	1-208-799-11	RES,CHIP	5.1K	0.50%	1/10W
R1807	1-216-037-00	RES,CHIP	330	5%	1/10W
R1808	1-216-081-00	RES,CHIP	22K	5%	1/10W
R1809	1-216-025-91	RES,CHIP	100	5%	1/10W
R1810	1-216-025-91	RES,CHIP	100	5%	1/10W
R1811	1-216-025-91	RES,CHIP	100	5%	1/10W
R1819	1-216-025-91	RES,CHIP	100	5%	1/10W
R1820	1-216-025-91	RES,CHIP	100	5%	1/10W
R1821	1-216-025-91	RES,CHIP	100	5%	1/10W
R1822	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R1823	1-208-799-11	RES,CHIP	5.1K	0.50%	1/10W
R1824	1-216-295-91	SHORT	0		
R1825	1-208-780-11	RES,CHIP	820	0.50%	1/10W
R1826	1-216-037-00	RES,CHIP	330	5%	1/10W
R1827	1-208-805-11	RES,CHIP	9.1K	0.50%	1/10W
R1828	1-208-806-11	RES,CHIP	10K	0.50%	1/10W
R1829	1-208-799-11	RES,CHIP	5.1K	0.50%	1/10W
R1830	1-216-295-91	SHORT	0		
R1831	1-208-810-11	RES,CHIP	15K	0.50%	1/10W

REF. NO.	PART NO.	DESCRIPTION			REMARK
R1832	1-208-818-11	RES,CHIP	33K	0.50%	1/10W
R1833	1-216-295-91	SHORT	0		
R1834	1-216-295-91	SHORT	0		
R1835	1-208-806-11	RES,CHIP	10K	0.50%	1/10W
R1836	1-216-025-91	RES,CHIP	100	5%	1/10W
R1837	1-216-025-91	RES,CHIP	100	5%	1/10W
R1838	1-216-025-91	RES,CHIP	100	5%	1/10W
R1839	1-216-025-91	RES,CHIP	100	5%	1/10W
R1840	1-208-806-11	RES,CHIP	10K	0.50%	1/10W
R1841	1-216-025-91	RES,CHIP	100	5%	1/10W
R1842	1-216-025-91	RES,CHIP	100	5%	1/10W
R1843	1-216-025-91	RES,CHIP	100	5%	1/10W
R1844	1-216-025-91	RES,CHIP	100	5%	1/10W
R1845	1-208-806-11	RES,CHIP	10K	0.50%	1/10W
R1846	1-216-025-91	RES,CHIP	100	5%	1/10W
R1847	1-208-806-11	RES,CHIP	10K	0.50%	1/10W
R1848	1-216-025-91	RES,CHIP	100	5%	1/10W
R1849	1-216-025-91	RES,CHIP	100	5%	1/10W
R1850	1-216-025-91	RES,CHIP	100	5%	1/10W
R1851	1-208-806-11	RES,CHIP	10K	0.50%	1/10W
R1853	1-208-806-11	RES,CHIP	10K	0.50%	1/10W
R1854	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1864	1-208-850-11	RES,CHIP	680K	0.50%	1/10W
R1865	1-208-806-11	RES,CHIP	10K	0.50%	1/10W
R1866	1-208-806-11	RES,CHIP	10K	0.50%	1/10W
R1867	1-208-806-11	RES,CHIP	10K	0.50%	1/10W
R1868	1-208-806-11	RES,CHIP	10K	0.50%	1/10W
R1869	1-208-806-11	RES,CHIP	10K	0.50%	1/10W
R1870	1-208-806-11	RES,CHIP	10K	0.50%	1/10W
R1871	1-208-806-11	RES,CHIP	10K	0.50%	1/10W
R1872	1-208-806-11	RES,CHIP	10K	0.50%	1/10W
R1873	1-208-806-11	RES,CHIP	10K	0.50%	1/10W
R1874	1-208-806-11	RES,CHIP	10K	0.50%	1/10W
R1875	1-208-806-11	RES,CHIP	10K	0.50%	1/10W
R1876	1-208-806-11	RES,CHIP	10K	0.50%	1/10W
R1877	1-208-822-11	RES,CHIP	47K	0.50%	1/10W
R1878	1-208-822-11	RES,CHIP	47K	0.50%	1/10W
R1879	1-208-822-11	RES,CHIP	47K	0.50%	1/10W
R1880	1-208-822-11	RES,CHIP	47K	0.50%	1/10W
R1881	1-208-822-11	RES,CHIP	47K	0.50%	1/10W
R1882	1-208-822-11	RES,CHIP	47K	0.50%	1/10W
R1883	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1885	1-208-793-11	RES,CHIP	3K	0.50%	1/10W
R1886	1-208-790-11	RES,CHIP	2.2K	0.50%	1/10W
R1887	1-208-776-11	RES,CHIP	560	0.50%	1/10W
R1888	1-216-295-91	SHORT	0		
R1889	1-216-295-91	SHORT	0		
R1890	1-216-295-91	SHORT	0		
R1907	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1908	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1909	1-216-041-00	RES,CHIP	470	5%	1/10W
R1910	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1911	1-216-025-91	RES,CHIP	100	5%	1/10W
R1912	1-216-025-91	RES,CHIP	100	5%	1/10W
R1913	1-208-806-11	RES,CHIP	10K	0.50%	1/10W
R1914	1-216-295-91	SHORT	0		

REF. NO.	PART NO.	DESCRIPTION			REMARK
R1915	1-216-025-91	RES,CHIP	100	5%	1/10W
R1916	1-216-025-91	RES,CHIP	100	5%	1/10W
R1917	1-216-025-91	RES,CHIP	100	5%	1/10W
R1919	1-216-033-00	RES,CHIP	220	5%	1/10W
R1920	1-216-033-00	RES,CHIP	220	5%	1/10W
R1923	1-216-295-91	SHORT	0		
R1925	1-216-295-91	SHORT	0		
R1926	1-216-033-00	RES,CHIP	220	5%	1/10W
		<CRYSTAL>			
X1701	1-767-925-21	VIBRATOR, CRYSTAL			

****

* A-1131-396-A BR BOARD, COMPLETE
****

<CAPACITOR>

C8502	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C8503	1-126-204-11	ELECT CHIP	47µF	20%	16V
C8506	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C8507	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C8508	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C8509	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C8510	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C8511	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C8512	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C8513	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C8514	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C8515	1-126-204-11	ELECT CHIP	47µF	20%	16V
C8516	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C8517	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C8518	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C8519	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C8520	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C8521	1-163-243-11	CERAMIC CHIP	47PF	5%	50V
C8522	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C8523	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C8524	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C8525	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C8528	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C8529	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C8533	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C8534	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C8535	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C8536	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C8540	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C8541	1-124-779-00	ELECT CHIP	10µF	20%	16V
C8543	1-107-823-11	CERAMIC CHIP	0.47µF	10%	16V
C8544	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C8545	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C8546	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C8547	1-126-206-11	ELECT CHIP	100µF	20%	6.3V
C8548	1-104-760-11	CERAMIC CHIP	0.047µF	10%	50V
C8549	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C8551	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C8553	1-126-204-11	ELECT CHIP	47µF	20%	16V
C8554	1-126-206-11	ELECT CHIP	100µF	20%	6.3V
C8555	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C8556	1-126-204-11	ELECT CHIP	47µF	20%	16V
C8557	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C8558	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C8559	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C8561	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C8563	1-126-204-11	ELECT CHIP	47µF	20%	16V
C8564	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C8565	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C8566	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C8568	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C8569	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C8570	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C8573	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C8574	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C8575	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C8577	1-126-204-11	ELECT CHIP	47µF	20%	16V
C8578	1-104-601-11	ELECT CHIP	10µF	20%	10V
C8580	1-104-601-11	ELECT CHIP	10µF	20%	10V
C8582	1-104-601-11	ELECT CHIP	10µF	20%	10V
C8584	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C8585	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C8586	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C8587	1-126-204-11	ELECT CHIP	47µF	20%	16V
C8588	1-126-204-11	ELECT CHIP	47µF	20%	16V
C8589	1-126-204-11	ELECT CHIP	47µF	20%	16V
C8590	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C8591	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C8592	1-126-204-11	ELECT CHIP	47µF	20%	16V
C8593	1-126-204-11	ELECT CHIP	47µF	20%	16V
C8598	1-126-204-11	ELECT CHIP	47µF	20%	16V
C8599	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C8600	1-126-204-11	ELECT CHIP	47µF	20%	16V
C8601	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C8602	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C8603	1-124-779-00	ELECT CHIP	10µF	20%	16V
C8604	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C8613	1-126-204-11	ELECT CHIP	47µF	20%	16V
C8614	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C8615	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C8616	1-163-017-00	CERAMIC CHIP	0.0047µF	10%	50V
C8617	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C8618	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C8619	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C8621	1-126-204-11	ELECT CHIP	47µF	20%	16V
C8622	1-107-823-11	CERAMIC CHIP	0.47µF	10%	16V
C8623	1-126-204-11	ELECT CHIP	47µF	20%	16V
C8624	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C8625	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C8626	1-163-038-91	CERAMIC CHIP	0.1µF		25V

REF. NO.	PART NO.	DESCRIPTION			REMARK
C8627	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C8628	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C8629	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C8630	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C8631	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C8632	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C8633	1-126-204-11	ELECT CHIP	47µF	20%	16V
C8634	1-107-823-11	CERAMIC CHIP	0.47µF	10%	16V
C8635	1-163-809-11	CERAMIC CHIP	0.047µF	10%	25V
C8636	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C8637	1-126-204-11	ELECT CHIP	47µF	20%	16V
C8638	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C8639	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C8640	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C8641	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C8642	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C8643	1-126-204-11	ELECT CHIP	47µF	20%	16V
C8644	1-126-204-11	ELECT CHIP	47µF	20%	16V
C8645	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C8646	1-126-204-11	ELECT CHIP	47µF	20%	16V
C8647	1-163-233-11	CERAMIC CHIP	18PF	5%	50V
C8648	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C8649	1-163-231-11	CERAMIC CHIP	15PF	5%	50V
C8650	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C8651	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C8652	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C8653	1-126-204-11	ELECT CHIP	47µF	20%	16V
C8654	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C8655	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C8656	1-126-204-11	ELECT CHIP	47µF	20%	16V
C8657	1-126-197-11	ELECT CHIP	10µF	20%	50V
C8658	1-126-197-11	ELECT CHIP	10µF	20%	50V
C8659	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C8660	1-126-204-11	ELECT CHIP	47µF	20%	16V
C8661	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C8662	1-124-779-00	ELECT CHIP	10µF	20%	16V
C8663	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C8664	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C8666	1-126-204-11	ELECT CHIP	47µF	20%	16V
C8667	1-126-197-11	ELECT CHIP	10µF	20%	50V
C8668	1-126-197-11	ELECT CHIP	10µF	20%	50V
C8669	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C8670	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C8671	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C8672	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C8673	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C8674	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C8675	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C8676	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C8677	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C8678	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C8679	1-126-204-11	ELECT CHIP	47µF	20%	16V
C8680	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C8681	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C8683	1-126-204-11	ELECT CHIP	47µF	20%	16V
C8684	1-126-204-11	ELECT CHIP	47µF	20%	16V
C8686	1-124-779-00	ELECT CHIP	10µF	20%	16V
C8687	1-124-779-00	ELECT CHIP	10µF	20%	16V
C8688	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C8689	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C8691	1-163-237-11	CERAMIC CHIP	27PF	5%	50V
C8692	1-164-505-11	CERAMIC CHIP	2.2µF		16V
C8693	1-124-779-00	ELECT CHIP	10µF	20%	16V
C8694	1-163-031-11	CERAMIC CHIP	0.01µF		50V

<CONNECTOR>

CN8501	1-573-979-21	CONNECTOR, BOARD TO BOARD		11P
CN8502	1-573-301-21	CONNECTOR, BOARD TO BOARD		20P
CN8503*	1-564-512-11	PLUG, CONNECTOR	9P	
CN8504*	1-564-513-11	PLUG, CONNECTOR	10P	
CN8505*	1-564-507-11	PLUG, CONNECTOR	4P	

<FILTER>

FL8501	1-234-113-21	FILTER, LOW PASS
FL8502	1-234-112-21	FILTER, LOW PASS
FL8503	1-234-112-21	FILTER, LOW PASS
FL8504	1-233-877-11	FILTER, LOW PASS
FL8505	1-233-504-21	FILTER, LOW PASS
FL8506	1-233-504-21	FILTER, LOW PASS
FL8507	1-233-736-21	FILTER, EMI
FL8508	1-233-736-21	FILTER, EMI
FL8509	1-233-736-21	FILTER, EMI
FL8510	1-233-945-21	FILTER, LOW PASS
FL8511	1-233-945-21	FILTER, LOW PASS
FL8512	1-233-945-21	FILTER, LOW PASS
FL8513	1-233-876-11	FILTER, LOW PASS
FL8514	1-233-944-21	FILTER, LOW PASS
FL8515	1-233-944-21	FILTER, LOW PASS

<IC>

IC8502	8-759-422-80	IC	MN47V77ST1
IC8503	8-759-422-80	IC	MN47V77ST1
IC8504	8-752-390-22	IC	CXD2075Q
IC8505	8-759-295-09	IC	TLC2932IPW
IC8506	8-759-447-90	IC	TLC5733AIPM
IC8507	8-759-430-32	IC	TLC2933IPWR
IC8511	8-759-575-88	IC	MC74ACT157DR2
IC8514	8-752-395-93	IC	CXD2087Q
IC8515	8-759-478-46	IC	MSM548332-25TS-K
IC8516	8-759-485-79	IC	TC7SET08FU(TE85L)
IC8517	8-759-478-46	IC	MSM548332-25TS-K
IC8518	8-759-295-09	IC	TLC2932IPW
IC8519	8-759-564-49	IC	TC7W53FU(TE12R)
IC8520	8-759-485-79	IC	TC7SET08FU(TE85L)
IC8521	8-759-011-64	IC	MC74HC4052F
IC8523	8-759-011-65	IC	MC74HC4053F
IC8524	8-752-388-99	IC	CXD2303AQ-TL
IC8525	8-759-485-79	IC	TC7SET08FU(TE85L)
IC8526	8-759-564-49	IC	TC7W53FU(TE12R)
IC8527	8-759-478-92	IC	TC7SET04FU(TE85R)

REF. NO.	PART NO.	DESCRIPTION		REMARK
IC8528	8-759-478-92	IC TC7SET04FU(TE85R)		
IC8529	8-759-478-92	IC TC7SET04FU(TE85R)		
		<CHIP CONDUCTOR>		
JR8501	1-216-295-91	SHORT	0	
		<COIL>		
L8501	1-414-752-11	INDUCTOR	2.2µH	
L8502	1-414-754-11	INDUCTOR	10µH	
L8503	1-414-756-11	INDUCTOR	47µH	
L8505	1-414-754-11	INDUCTOR	10µH	
L8507	1-414-754-11	INDUCTOR	10µH	
L8508	1-414-757-11	INDUCTOR	100µH	
L8509	1-414-757-11	INDUCTOR	100µH	
L8510	1-414-234-22	INDUCTOR CHIP	0µH	
L8511	1-414-757-11	INDUCTOR	100µH	
L8512	1-414-234-22	INDUCTOR CHIP	0µH	
L8513	1-414-757-11	INDUCTOR	100µH	
L8514	1-414-757-11	INDUCTOR	100µH	
L8515	1-414-234-22	INDUCTOR CHIP	0µH	
L8516	1-414-234-22	INDUCTOR CHIP	0µH	
L8517	1-414-756-11	INDUCTOR	47µH	
L8518	1-414-753-91	INDUCTOR	4.7µH	
L8519	1-414-234-22	INDUCTOR CHIP	0µH	
L8520	1-414-234-22	INDUCTOR CHIP	0µH	
L8521	1-414-234-22	INDUCTOR CHIP	0µH	
L8522	1-414-234-22	INDUCTOR CHIP	0µH	
L8524	1-414-754-11	INDUCTOR	10µH	
L8525	1-414-754-11	INDUCTOR	10µH	
L8526	1-414-754-11	INDUCTOR	10µH	
L8527	1-414-754-11	INDUCTOR	10µH	
L8528	1-414-754-11	INDUCTOR	10µH	
L8529	1-414-754-11	INDUCTOR	10µH	
L8530	1-414-754-11	INDUCTOR	10µH	
L8531	1-414-754-11	INDUCTOR	10µH	
L8532	1-414-754-11	INDUCTOR	10µH	
L8533	1-414-754-11	INDUCTOR	10µH	
L8534	1-414-754-11	INDUCTOR	10µH	
L8535	1-414-234-22	INDUCTOR CHIP	0µH	
L8536	1-414-234-22	INDUCTOR CHIP	0µH	
L8537	1-414-234-22	INDUCTOR CHIP	0µH	
L8538	1-414-234-22	INDUCTOR CHIP	0µH	
L8539	1-414-234-22	INDUCTOR CHIP	0µH	
L8540	1-414-234-22	INDUCTOR CHIP	0µH	
L8541	1-414-234-22	INDUCTOR CHIP	0µH	
L8542	1-412-002-31	INDUCTOR CHIP	4.7µH	
L8543	1-414-234-22	INDUCTOR CHIP	0µH	
		<TRANSISTOR>		
Q8501	8-729-216-22	TRANSISTOR	2SA1162-G	
Q8502	8-729-216-22	TRANSISTOR	2SA1162-G	
Q8503	8-729-216-22	TRANSISTOR	2SA1162-G	
Q8504	8-729-216-22	TRANSISTOR	2SA1162-G	
Q8505	8-729-216-22	TRANSISTOR	2SA1162-G	
Q8506	8-729-216-22	TRANSISTOR	2SA1162-G	
Q8508	8-729-216-22	TRANSISTOR	2SA1162-G	
Q8509	8-729-216-22	TRANSISTOR	2SA1162-G	
Q8511	8-729-120-28	TRANSISTOR	2SC1623-L5L6	
Q8512	8-729-216-22	TRANSISTOR	2SA1162-G	
Q8513	8-729-216-22	TRANSISTOR	2SA1162-G	
Q8514	8-729-216-22	TRANSISTOR	2SA1162-G	
Q8515	8-729-422-27	TRANSISTOR	2SD601A-Q	
Q8516	8-729-422-27	TRANSISTOR	2SD601A-Q	
Q8517	8-729-422-27	TRANSISTOR	2SD601A-Q	
Q8519	8-729-216-22	TRANSISTOR	2SA1162-G	
Q8520	8-729-216-22	TRANSISTOR	2SA1162-G	
Q8521	8-729-216-22	TRANSISTOR	2SA1162-G	
Q8522	8-729-216-22	TRANSISTOR	2SA1162-G	
Q8523	8-729-216-22	TRANSISTOR	2SA1162-G	
Q8524	8-729-216-22	TRANSISTOR	2SA1162-G	
Q8525	8-729-216-22	TRANSISTOR	2SA1162-G	
Q8526	8-729-422-27	TRANSISTOR	2SD601A-Q	
Q8527	8-729-216-22	TRANSISTOR	2SA1162-G	
Q8528	8-729-422-27	TRANSISTOR	2SD601A-Q	
Q8529	8-729-422-27	TRANSISTOR	2SD601A-Q	
Q8530	8-729-422-27	TRANSISTOR	2SD601A-Q	
Q8531	8-729-422-27	TRANSISTOR	2SD601A-Q	
Q8532	1-801-806-11	TRANSISTOR	DTC144EKA-T146	
Q8533	1-801-806-11	TRANSISTOR	DTC144EKA-T146	
Q8534	1-801-806-11	TRANSISTOR	DTC144EKA-T146	
Q8535	8-729-422-27	TRANSISTOR	2SD601A-Q	
Q8536	1-801-806-11	TRANSISTOR	DTC144EKA-T146	
Q8537	8-729-422-27	TRANSISTOR	2SD601A-Q	
Q8538	1-801-806-11	TRANSISTOR	DTC144EKA-T146	
Q8539	8-729-422-27	TRANSISTOR	2SD601A-Q	
Q8540	8-729-216-22	TRANSISTOR	2SA1162-G	
Q8541	8-729-216-22	TRANSISTOR	2SA1162-G	
Q8542	8-729-216-22	TRANSISTOR	2SA1162-G	
Q8543	8-729-422-27	TRANSISTOR	2SD601A-Q	
Q8544	8-729-216-22	TRANSISTOR	2SA1162-G	
Q8545	8-729-216-22	TRANSISTOR	2SA1162-G	
Q8546	1-801-806-11	TRANSISTOR	DTC144EKA-T146	
Q8547	1-801-806-11	TRANSISTOR	DTC144EKA-T146	
Q8548	1-801-806-11	TRANSISTOR	DTC144EKA-T146	
Q8549	1-801-806-11	TRANSISTOR	DTC144EKA-T146	
Q8550	1-801-806-11	TRANSISTOR	DTC144EKA-T146	
Q8551	1-801-806-11	TRANSISTOR	DTC144EKA-T146	
Q8552	8-729-422-27	TRANSISTOR	2SD601A-Q	
Q8553	8-729-422-27	TRANSISTOR	2SD601A-Q	
Q8554	8-729-422-27	TRANSISTOR	2SD601A-Q	
		<RESISTOR>		
R8501	1-216-295-91	SHORT	0	
R8502	1-216-295-91	SHORT	0	
R8503	1-216-295-91	SHORT	0	
R8504	1-208-766-11	RES,CHIP	220	0.50% 1/10W
R8505	1-208-766-11	RES,CHIP	220	0.50% 1/10W
R8506	1-208-766-11	RES,CHIP	220	0.50% 1/10W
R8507	1-216-295-91	SHORT	0	

REF. NO.	PART NO.	DESCRIPTION			REMARK
R8508	1-216-295-91	SHORT	0		
R8509	1-216-295-91	SHORT	0		
R8510	1-208-766-11	RES,CHIP	220	0.50%	1/10W
R8511	1-208-766-11	RES,CHIP	220	0.50%	1/10W
R8512	1-208-766-11	RES,CHIP	220	0.50%	1/10W
R8513	1-208-777-11	RES,CHIP	620	0.50%	1/10W
R8514	1-208-768-11	RES,CHIP	270	0.50%	1/10W
R8515	1-208-790-11	RES,CHIP	2.2K	0.50%	1/10W
R8516	1-208-790-11	RES,CHIP	2.2K	0.50%	1/10W
R8517	1-208-790-11	RES,CHIP	2.2K	0.50%	1/10W
R8518	1-208-794-11	RES,CHIP	3.3K	0.50%	1/10W
R8523	1-216-295-91	SHORT	0		
R8524	1-216-295-91	SHORT	0		
R8526	1-216-295-91	SHORT	0		
R8531	1-216-295-91	SHORT	0		
R8533	1-216-295-91	SHORT	0		
R8534	1-216-295-91	SHORT	0		
R8536	1-216-295-91	SHORT	0		
R8539	1-216-295-91	SHORT	0		
R8541	1-216-295-91	SHORT	0		
R8542	1-216-295-91	SHORT	0		
R8544	1-216-025-91	RES,CHIP	100	5%	1/10W
R8545	1-216-025-91	RES,CHIP	100	5%	1/10W
R8546	1-216-295-91	SHORT	0		
R8549	1-216-295-91	SHORT	0		
R8550	1-216-295-91	SHORT	0		
R8553	1-216-295-91	SHORT	0		
R8555	1-216-295-91	SHORT	0		
R8556	1-216-295-91	SHORT	0		
R8557	1-216-295-91	SHORT	0		
R8559	1-216-295-91	SHORT	0		
R8560	1-216-295-91	SHORT	0		
R8561	1-216-295-91	SHORT	0		
R8562	1-216-295-91	SHORT	0		
R8564	1-216-295-91	SHORT	0		
R8569	1-216-295-91	SHORT	0		
R8571	1-216-295-91	SHORT	0		
R8572	1-216-295-91	SHORT	0		
R8573	1-216-295-91	SHORT	0		
R8574	1-216-037-00	RES,CHIP	330	5%	1/10W
R8575	1-216-041-00	RES,CHIP	470	5%	1/10W
R8576	1-216-037-00	RES,CHIP	330	5%	1/10W
R8577	1-216-113-00	RES,CHIP	470K	5%	1/10W
R8578	1-216-049-91	RES,CHIP	1K	5%	1/10W
R8579	1-216-117-00	RES,CHIP	680K	5%	1/10W
R8580	1-216-081-00	RES,CHIP	22K	5%	1/10W
R8581	1-216-097-91	RES,CHIP	100K	5%	1/10W
R8582	1-216-025-91	RES,CHIP	100	5%	1/10W
R8583	1-208-750-11	RES,CHIP	47	0.50%	1/10W
R8584	1-208-750-11	RES,CHIP	47	0.50%	1/10W
R8587	1-216-295-91	SHORT	0		
R8589	1-216-025-91	RES,CHIP	100	5%	1/10W
R8590	1-216-033-00	RES,CHIP	220	5%	1/10W
R8591	1-216-295-91	SHORT	0		
R8593	1-216-049-91	RES,CHIP	1K	5%	1/10W
R8594	1-208-752-11	RES,CHIP	56	0.50%	1/10W

REF. NO.	PART NO.	DESCRIPTION			REMARK
R8595	1-216-061-00	RES,CHIP	3.3K	5%	1/10W
R8596	1-208-752-11	RES,CHIP	56	0.50%	1/10W
R8597	1-216-061-00	RES,CHIP	3.3K	5%	1/10W
R8599	1-208-750-11	RES,CHIP	47	0.50%	1/10W
R8601	1-208-750-11	RES,CHIP	47	0.50%	1/10W
R8603	1-216-062-00	RES,CHIP	3.6K	5%	1/10W
R8604	1-216-295-91	SHORT	0		
R8605	1-216-077-00	RES,CHIP	15K	5%	1/10W
R8607	1-216-295-91	SHORT	0		
R8608	1-216-113-00	RES,CHIP	470K	5%	1/10W
R8610	1-216-073-00	RES,CHIP	10K	5%	1/10W
R8611	1-216-025-91	RES,CHIP	100	5%	1/10W
R8613	1-216-077-00	RES,CHIP	15K	5%	1/10W
R8614	1-216-077-00	RES,CHIP	15K	5%	1/10W
R8617	1-208-750-11	RES,CHIP	47	0.50%	1/10W
R8618	1-208-750-11	RES,CHIP	47	0.50%	1/10W
R8621	1-216-295-91	SHORT	0		
R8622	1-216-295-91	SHORT	0		
R8623	1-208-754-11	RES,CHIP	68	0.50%	1/10W
R8624	1-208-754-11	RES,CHIP	68	0.50%	1/10W
R8625	1-208-750-11	RES,CHIP	47	0.50%	1/10W
R8626	1-208-750-11	RES,CHIP	47	0.50%	1/10W
R8627	1-216-295-91	SHORT	0		
R8628	1-208-774-11	RES,CHIP	470	0.50%	1/10W
R8629	1-208-774-11	RES,CHIP	470	0.50%	1/10W
R8630	1-208-774-11	RES,CHIP	470	0.50%	1/10W
R8631	1-208-800-11	RES,CHIP	5.6K	0.50%	1/10W
R8632	1-208-800-11	RES,CHIP	5.6K	0.50%	1/10W
R8633	1-208-800-11	RES,CHIP	5.6K	0.50%	1/10W
R8634	1-208-776-11	RES,CHIP	560	0.50%	1/10W
R8635	1-208-776-11	RES,CHIP	560	0.50%	1/10W
R8636	1-208-776-11	RES,CHIP	560	0.50%	1/10W
R8637	1-216-041-00	RES,CHIP	470	5%	1/10W
R8638	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R8639	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R8640	1-216-295-91	SHORT	0		
R8641	1-216-295-91	SHORT	0		
R8642	1-216-295-91	SHORT	0		
R8646	1-216-295-91	SHORT	0		
R8647	1-216-295-91	SHORT	0		
R8648	1-216-295-91	SHORT	0		
R8649	1-216-295-91	SHORT	0		
R8650	1-216-295-91	SHORT	0		
R8651	1-216-049-91	RES,CHIP	1K	5%	1/10W
R8652	1-216-049-91	RES,CHIP	1K	5%	1/10W
R8653	1-216-049-91	RES,CHIP	1K	5%	1/10W
R8656	1-216-295-91	SHORT	0		
R8657	1-216-295-91	SHORT	0		
R8658	1-216-295-91	SHORT	0		
R8661	1-208-770-11	RES,CHIP	330	0.50%	1/10W
R8662	1-208-754-11	RES,CHIP	68	0.50%	1/10W
R8663	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R8664	1-208-754-11	RES,CHIP	68	0.50%	1/10W
R8665	1-208-754-11	RES,CHIP	68	0.50%	1/10W
R8667	1-208-754-11	RES,CHIP	68	0.50%	1/10W
R8668	1-208-754-11	RES,CHIP	68	0.50%	1/10W

REF. NO.	PART NO.	DESCRIPTION			REMARK
R8669	1-216-053-00	RES,CHIP	1.5K	5%	1/10W
R8670	1-208-754-11	RES,CHIP	68	0.50%	1/10W
R8671	1-208-754-11	RES,CHIP	68	0.50%	1/10W
R8674	1-216-061-00	RES,CHIP	3.3K	5%	1/10W
R8675	1-216-085-00	RES,CHIP	33K	5%	1/10W
R8677	1-216-295-91	SHORT	0		
R8678	1-216-295-91	SHORT	0		
R8679	1-216-025-91	RES,CHIP	100	5%	1/10W
R8681	1-216-025-91	RES,CHIP	100	5%	1/10W
R8683	1-216-025-91	RES,CHIP	100	5%	1/10W
R8684	1-216-295-91	SHORT	0		
R8685	1-216-295-91	SHORT	0		
R8686	1-216-025-91	RES,CHIP	100	5%	1/10W
R8687	1-216-295-91	SHORT	0		
R8688	1-216-025-91	RES,CHIP	100	5%	1/10W
R8689	1-216-295-91	SHORT	0		
R8690	1-216-025-91	RES,CHIP	100	5%	1/10W
R8691	1-216-295-91	SHORT	0		
R8692	1-216-025-91	RES,CHIP	100	5%	1/10W
R8693	1-216-295-91	SHORT	0		
R8694	1-216-025-91	RES,CHIP	100	5%	1/10W
R8695	1-216-295-91	SHORT	0		
R8696	1-216-025-91	RES,CHIP	100	5%	1/10W
R8697	1-216-295-91	SHORT	0		
R8698	1-216-025-91	RES,CHIP	100	5%	1/10W
R8699	1-216-295-91	SHORT	0		
R8700	1-216-025-91	RES,CHIP	100	5%	1/10W
R8701	1-216-025-91	RES,CHIP	100	5%	1/10W
R8702	1-216-295-91	SHORT	0		
R8703	1-216-073-00	RES,CHIP	10K	5%	1/10W
R8704	1-216-295-91	SHORT	0		
R8705	1-216-025-91	RES,CHIP	100	5%	1/10W
R8706	1-216-041-00	RES,CHIP	470	5%	1/10W
R8707	1-216-051-00	RES,CHIP	1.2K	5%	1/10W
R8708	1-216-117-00	RES,CHIP	680K	5%	1/10W
R8709	1-216-025-91	RES,CHIP	100	5%	1/10W
R8710	1-216-295-91	SHORT	0		
R8711	1-216-295-91	SHORT	0		
R8712	1-216-295-91	SHORT	0		
R8714	1-208-794-11	RES,CHIP	3.3K	0.50%	1/10W
R8715	1-216-025-91	RES,CHIP	100	5%	1/10W
R8716	1-208-799-11	RES,CHIP	5.1K	0.50%	1/10W
R8717	1-208-768-11	RES,CHIP	270	0.50%	1/10W
R8718	1-216-073-00	RES,CHIP	10K	5%	1/10W
R8719	1-216-025-91	RES,CHIP	100	5%	1/10W
R8720	1-208-777-11	RES,CHIP	620	0.50%	1/10W
R8721	1-216-073-00	RES,CHIP	10K	5%	1/10W
R8722	1-208-766-11	RES,CHIP	220	0.50%	1/10W
R8723	1-208-766-11	RES,CHIP	220	0.50%	1/10W
R8724	1-208-766-11	RES,CHIP	220	0.50%	1/10W
R8725	1-216-295-91	SHORT	0		
R8726	1-216-295-91	SHORT	0		
R8727	1-216-295-91	SHORT	0		
R8728	1-216-049-91	RES,CHIP	1K	5%	1/10W
R8729	1-216-049-91	RES,CHIP	1K	5%	1/10W
R8730	1-216-049-91	RES,CHIP	1K	5%	1/10W

REF. NO.	PART NO.	DESCRIPTION			REMARK
R8731	1-208-762-11	RES,CHIP	150	0.50%	1/10W
R8732	1-208-762-11	RES,CHIP	150	0.50%	1/10W
R8733	1-208-762-11	RES,CHIP	150	0.50%	1/10W
R8734	1-216-655-11	RES,CHIP	1.5K	0.50%	1/10W
R8735	1-216-655-11	RES,CHIP	1.5K	0.50%	1/10W
R8736	1-216-655-11	RES,CHIP	1.5K	0.50%	1/10W
R8737	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R8738	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R8739	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R8740	1-216-097-91	RES,CHIP	100K	5%	1/10W
R8741	1-216-073-00	RES,CHIP	10K	5%	1/10W
R8742	1-216-097-91	RES,CHIP	100K	5%	1/10W
R8743	1-216-085-00	RES,CHIP	33K	5%	1/10W
R8744	1-216-081-00	RES,CHIP	22K	5%	1/10W
R8745	1-216-089-91	RES,CHIP	47K	5%	1/10W
R8746	1-216-073-00	RES,CHIP	10K	5%	1/10W
R8747	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R8748	1-216-041-00	RES,CHIP	470	5%	1/10W
R8750	1-216-073-00	RES,CHIP	10K	5%	1/10W
R8751	1-216-025-91	RES,CHIP	100	5%	1/10W
R8752	1-216-025-91	RES,CHIP	100	5%	1/10W
R8754	1-216-073-00	RES,CHIP	10K	5%	1/10W
R8756	1-216-041-00	RES,CHIP	470	5%	1/10W
R8757	1-216-041-00	RES,CHIP	470	5%	1/10W
R8758	1-216-013-00	RES,CHIP	33	5%	1/10W
R8759	1-216-025-91	RES,CHIP	100	5%	1/10W
R8760	1-216-025-91	RES,CHIP	100	5%	1/10W
R8761	1-216-025-91	RES,CHIP	100	5%	1/10W
R8762	1-216-089-91	RES,CHIP	47K	5%	1/10W
R8763	1-216-081-00	RES,CHIP	22K	5%	1/10W
R8764	1-216-041-00	RES,CHIP	470	5%	1/10W
R8765	1-216-041-00	RES,CHIP	470	5%	1/10W
R8766	1-216-089-91	RES,CHIP	47K	5%	1/10W
R8767	1-216-081-00	RES,CHIP	22K	5%	1/10W
R8768	1-216-089-91	RES,CHIP	47K	5%	1/10W
R8769	1-216-081-00	RES,CHIP	22K	5%	1/10W
R8770	1-216-039-00	RES,CHIP	390	5%	1/10W
R8771	1-216-049-91	RES,CHIP	1K	5%	1/10W
R8772	1-216-033-00	RES,CHIP	220	5%	1/10W
R8773	1-208-762-11	RES,CHIP	150	0.50%	1/10W
R8774	1-208-762-11	RES,CHIP	150	0.50%	1/10W
R8775	1-216-049-91	RES,CHIP	1K	5%	1/10W
R8777	1-216-033-00	RES,CHIP	220	5%	1/10W
R8778	1-216-655-11	RES,CHIP	1.5K	0.50%	1/10W
R8779	1-216-655-11	RES,CHIP	1.5K	0.50%	1/10W
R8780	1-216-041-00	RES,CHIP	470	5%	1/10W
R8781	1-216-049-91	RES,CHIP	1K	5%	1/10W
R8782	1-216-049-91	RES,CHIP	1K	5%	1/10W
R8783	1-208-754-11	RES,CHIP	68	0.50%	1/10W
R8784	1-208-754-11	RES,CHIP	68	0.50%	1/10W
R8785	1-208-754-11	RES,CHIP	68	0.50%	1/10W
R8786	1-208-770-11	RES,CHIP	330	0.50%	1/10W
R8789	1-208-754-11	RES,CHIP	68	0.50%	1/10W
R8790	1-208-754-11	RES,CHIP	68	0.50%	1/10W
R8791	1-216-013-00	RES,CHIP	33	5%	1/10W
R8792	1-216-013-00	RES,CHIP	33	5%	1/10W

REF. NO.	PART NO.	DESCRIPTION			REMARK
R8793	1-208-754-11	RES,CHIP	68	0.50%	1/10W
R8794	1-208-754-11	RES,CHIP	68	0.50%	1/10W
R8798	1-216-295-91	SHORT	0		
R8801	1-216-295-91	SHORT	0		
R8802	1-216-295-91	SHORT	0		
R8803	1-216-073-00	RES,CHIP	10K	5%	1/10W
R8804	1-216-073-00	RES,CHIP	10K	5%	1/10W
R8805	1-216-295-91	SHORT	0		
R8806	1-216-073-00	RES,CHIP	10K	5%	1/10W
R8807	1-216-049-91	RES,CHIP	1K	5%	1/10W
R8808	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R8809	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R8810	1-216-073-00	RES,CHIP	10K	5%	1/10W
R8811	1-216-041-00	RES,CHIP	470	5%	1/10W
R8812	1-216-041-00	RES,CHIP	470	5%	1/10W
R8813	1-216-025-91	RES,CHIP	100	5%	1/10W
R8814	1-208-782-11	RES,CHIP	1K	0.50%	1/10W
R8815	1-208-784-11	RES,CHIP	1.2K	0.50%	1/10W
R8816	1-216-049-91	RES,CHIP	1K	5%	1/10W
R8817	1-216-081-00	RES,CHIP	22K	5%	1/10W
R8818	1-216-079-00	RES,CHIP	18K	5%	1/10W
R8819	1-216-049-91	RES,CHIP	1K	5%	1/10W
R8821	1-216-025-91	RES,CHIP	100	5%	1/10W
R8822	1-216-295-91	SHORT	0		
R8823	1-216-295-91	SHORT	0		
R8825	1-216-295-91	SHORT	0		

<CRYSTAL>

X8501	1-767-924-21	VIBRATOR, CRYSTAL			

****

* A-1131-397-A BM BOARD, COMPLETE
****

<CAPACITOR>

C001	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C002	1-107-823-11	CERAMIC CHIP	0.47µF	10%	16V
C003	1-104-760-11	CERAMIC CHIP	0.047µF	10%	50V
C004	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C005	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C006	1-126-204-11	ELECT CHIP	47µF	20%	16V
C009	1-126-204-11	ELECT CHIP	47µF	20%	16V
C010	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C011	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C012	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C013	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C014	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C015	1-126-204-11	ELECT CHIP	47µF	20%	16V
C016	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C017	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C018	1-126-204-11	ELECT CHIP	47µF	20%	16V
C019	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C021	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C022	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C023	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C024	1-126-204-11	ELECT CHIP	47µF	20%	16V
C025	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C026	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C028	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C030	1-124-779-00	ELECT CHIP	10µF	20%	16V
C031	1-164-346-11	CERAMIC CHIP	1µF		16V
C032	1-164-346-11	CERAMIC CHIP	1µF		16V
C034	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C035	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C036	1-126-204-11	ELECT CHIP	47µF	20%	16V
C037	1-126-204-11	ELECT CHIP	47µF	20%	16V
C038	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C039	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C040	1-126-204-11	ELECT CHIP	47µF	20%	16V
C042	1-104-760-11	CERAMIC CHIP	0.047µF	10%	50V
C043	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C044	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C045	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C046	1-107-823-11	CERAMIC CHIP	0.47µF	10%	16V
C047	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C050	1-126-206-11	ELECT CHIP	100µF	20%	6.3V
C052	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C053	1-126-204-11	ELECT CHIP	47µF	20%	16V
C054	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C055	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C056	1-126-204-11	ELECT CHIP	47µF	20%	16V
C058	1-164-005-11	CERAMIC CHIP	0.47µF	16V	
C059	1-126-204-11	ELECT CHIP	47µF	20%	16V
C060	1-163-233-11	CERAMIC CHIP	18PF	5%	50V
C062	1-163-231-11	CERAMIC CHIP	15PF	5%	50V
C063	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C064	1-126-204-11	ELECT CHIP	47µF	20%	16V
C066	1-163-017-00	CERAMIC CHIP	0.0047µF	10%	50V
C067	1-164-005-11	CERAMIC CHIP	0.47µF		16V
C068	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C069	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C070	1-126-204-11	ELECT CHIP	47µF	20%	16V
C071	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C072	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C073	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C074	1-126-204-11	ELECT CHIP	47µF	20%	16V
C075	1-164-161-11	CERAMIC CHIP	0.0022µF	10%	50V
C076	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C077	1-126-204-11	ELECT CHIP	47µF	20%	16V
C078	1-107-823-11	CERAMIC CHIP	0.47µF	10%	16V
C081	1-164-161-11	CERAMIC CHIP	0.0022µF	10%	50V
C082	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C083	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C084	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C085	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C086	1-126-204-11	ELECT CHIP	47µF	20%	16V
C087	1-163-251-11	CERAMIC CHIP	100PF	5%	50V

REF. NO.	PART NO.	DESCRIPTION			REMARK
C089	1-163-237-11	CERAMIC CHIP	27PF	5%	50V
C090	1-163-231-11	CERAMIC CHIP	15PF	5%	50V
C091	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C092	1-126-204-11	ELECT CHIP	47µF	20%	16V
C093	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C094	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C095	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C096	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C097	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C098	1-126-204-11	ELECT CHIP	47µF	20%	16V
C100	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C101	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C102	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C103	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C104	1-126-204-11	ELECT CHIP	47µF	20%	16V
C105	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C106	1-126-204-11	ELECT CHIP	47µF	20%	16V
C107	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C108	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C109	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C110	1-124-779-00	ELECT CHIP	10µF	20%	16V
C111	1-124-779-00	ELECT CHIP	10µF	20%	16V
C112	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C113	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C114	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C115	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C116	1-126-204-11	ELECT CHIP	47µF	20%	16V
C117	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C118	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C119	1-107-823-11	CERAMIC CHIP	0.47µF	10%	16V
C120	1-104-760-11	CERAMIC CHIP	0.047µF	10%	50V
C121	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C122	1-124-779-00	ELECT CHIP	10µF	20%	16V
C123	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C124	1-126-204-11	ELECT CHIP	47µF	20%	16V
C125	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C126	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C127	1-126-204-11	ELECT CHIP	47µF	20%	16V
C128	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C129	1-126-204-11	ELECT CHIP	47µF	20%	16V
C130	1-124-779-00	ELECT CHIP	10µF	20%	16V
C131	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C132	1-126-204-11	ELECT CHIP	47µF	20%	16V
C133	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C134	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C135	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C136	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C137	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C138	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C141	1-124-779-00	ELECT CHIP	10µF	20%	16V
C142	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C143	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C144	1-126-204-11	ELECT CHIP	47µF	20%	16V
C145	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C146	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C147	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C148	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C149	1-126-204-11	ELECT CHIP	47µF	20%	16V
C150	1-126-204-11	ELECT CHIP	47µF	20%	16V
C151	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C152	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C153	1-124-779-00	ELECT CHIP	10µF	20%	16V
C154	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C155	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C156	1-124-779-00	ELECT CHIP	10µF	20%	16V
C157	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C158	1-126-204-11	ELECT CHIP	47µF	20%	16V
C159	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C160	1-126-204-11	ELECT CHIP	47µF	20%	16V
C161	1-163-038-91	CERAMIC CHIP	0.1µF		25V

<CONNECTOR>

CN001	1-573-301-21	CONNECTOR, BOARD TO BOARD		20P
CN002	1-573-301-21	CONNECTOR, BOARD TO BOARD		20P
CN003 *	1-564-507-11	PLUG, CONNECTOR 4P		

<DIODE>

D001	8-719-404-50	DIODE	MA111-TX
D002	8-719-404-50	DIODE	MA111-TX
D003	8-719-404-50	DIODE	MA111-TX

<FILTER>

FL001	1-233-505-21	FILTER, LOW PASS
FL002	1-233-504-21	FILTER, LOW PASS
FL003	1-233-504-21	FILTER, LOW PASS
FL007	1-233-505-21	FILTER, LOW PASS
FL008	1-233-945-21	FILTER, LOW PASS
FL009	1-233-944-21	FILTER, LOW PASS
FL010	1-233-504-21	FILTER, LOW PASS
FL011	1-233-944-21	FILTER, LOW PASS
FL012	1-233-504-21	FILTER, LOW PASS

<IC>

IC001	8-759-467-22	IC	MSM548331TS-K
IC002	8-759-295-09	IC	TLC2932IPW
IC003	8-752-388-99	IC	CXD2303AQ-TL
IC004	8-759-485-79	IC	TC7SET08FU(TE85L)
IC005	8-759-527-74	IC	M24C02-MN6T
IC006	8-759-352-91	IC	PST9143NL
IC007	8-759-485-79	IC	TC7SET08FU(TE85L)
IC008	8-759-295-09	IC	TLC2932IPW
IC009	8-752-905-59	IC	CXP85840A-027Q
IC010	8-752-392-55	IC	CXD2079Q
IC011	8-759-295-09	IC	TLC2932IPW
IC012	8-759-485-79	IC	TC7SET08FU(TE85L)
IC013	8-759-467-22	IC	MSM548331TS-K
IC014	8-752-388-99	IC	CXD2303AQ-TL

REF. NO.	PART NO.	DESCRIPTION			REMARK
		<COIL>			
L001	1-414-234-22	INDUCTOR CHIP	0µH		
L002	1-414-234-22	INDUCTOR CHIP	0µH		
L003	1-414-234-22	INDUCTOR CHIP	0µH		
L004	1-414-234-22	INDUCTOR CHIP	0µH		
L005	1-414-234-22	INDUCTOR CHIP	0µH		
L006	1-414-234-22	INDUCTOR CHIP	0µH		
L007	1-414-754-11	INDUCTOR	10µH		
L008	1-414-754-11	INDUCTOR	10µH		
L009	1-414-754-11	INDUCTOR	10µH		
L010	1-414-234-22	INDUCTOR CHIP	0µH		
L011	1-414-754-11	INDUCTOR	10µH		
L012	1-414-754-11	INDUCTOR	10µH		
L013	1-414-234-22	INDUCTOR CHIP	0µH		
L014	1-414-754-11	INDUCTOR	10µH		
L015	1-414-234-22	INDUCTOR CHIP	0µH		
L016	1-414-234-22	INDUCTOR CHIP	0µH		
L017	1-414-234-22	INDUCTOR CHIP	0µH		
L018	1-414-234-22	INDUCTOR CHIP	0µH		
L019	1-414-234-22	INDUCTOR CHIP	0µH		
L020	1-414-234-22	INDUCTOR CHIP	0µH		
L021	1-414-234-22	INDUCTOR CHIP	0µH		
L022	1-414-234-22	INDUCTOR CHIP	0µH		
L023	1-414-234-22	INDUCTOR CHIP	0µH		
L024	1-414-234-22	INDUCTOR CHIP	0µH		
L025	1-414-234-22	INDUCTOR CHIP	0µH		
L026	1-414-234-22	INDUCTOR CHIP	0µH		
L027	1-414-234-22	INDUCTOR CHIP	0µH		
L028	1-414-234-22	INDUCTOR CHIP	0µH		
		<TRANSISTOR>			
Q001	8-729-422-27	TRANSISTOR	2SD601A-Q		
Q002	8-729-216-22	TRANSISTOR	2SA1162-G		
Q006	8-729-422-27	TRANSISTOR	2SD601A-Q		
Q007	8-729-216-22	TRANSISTOR	2SA1162-G		
Q009	8-729-422-27	TRANSISTOR	2SD601A-Q		
Q010	8-729-216-22	TRANSISTOR	2SA1162-G		
Q018	8-729-216-22	TRANSISTOR	2SA1162-G		
Q019	8-729-422-27	TRANSISTOR	2SD601A-Q		
Q020	8-729-216-22	TRANSISTOR	2SA1162-G		
Q021	8-729-216-22	TRANSISTOR	2SA1162-G		
Q022	8-729-216-22	TRANSISTOR	2SA1162-G		
Q023	8-729-422-27	TRANSISTOR	2SD601A-Q		
Q025	8-729-216-22	TRANSISTOR	2SA1162-G		
Q026	8-729-216-22	TRANSISTOR	2SA1162-G		
Q027	8-729-216-22	TRANSISTOR	2SA1162-G		
Q028	8-729-216-22	TRANSISTOR	2SA1162-G		
Q029	8-729-422-27	TRANSISTOR	2SD601A-Q		
Q030	8-729-216-22	TRANSISTOR	2SA1162-G		
Q031	8-729-422-27	TRANSISTOR	2SD601A-Q		
Q032	1-801-806-11	TRANSISTOR	DTC144EKA-T146		
		<RESISTOR>			
R001	1-216-117-00	RES,CHIP	680K	5%	1/10W
R002	1-216-051-00	RES,CHIP	1.2K	5%	1/10W
R003	1-216-295-91	SHORT	0		
R007	1-216-041-00	RES,CHIP	470	5%	1/10W
R008	1-208-800-11	RES,CHIP	5.6K	0.50%	1/10W
R009	1-216-049-91	RES,CHIP	1K	5%	1/10W
R010	1-216-295-91	SHORT	0		
R012	1-208-794-11	RES,CHIP	3.3K	0.50%	1/10W
R013	1-216-041-00	RES,CHIP	470	5%	1/10W
R014	1-208-776-11	RES,CHIP	560	0.50%	1/10W
R016	1-216-013-00	RES,CHIP	33	5%	1/10W
R018	1-216-295-91	SHORT	0		
R019	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R020	1-216-049-91	RES,CHIP	1K	5%	1/10W
R021	1-216-049-91	RES,CHIP	1K	5%	1/10W
R022	1-216-049-91	RES,CHIP	1K	5%	1/10W
R023	1-208-754-11	RES,CHIP	68	0.50%	1/10W
R024	1-208-776-11	RES,CHIP	560	0.50%	1/10W
R025	1-208-754-11	RES,CHIP	68	0.50%	1/10W
R026	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R027	1-208-754-11	RES,CHIP	68	0.50%	1/10W
R028	1-208-770-11	RES,CHIP	330	0.50%	1/10W
R029	1-208-800-11	RES,CHIP	5.6K	0.50%	1/10W
R030	1-216-049-91	RES,CHIP	1K	5%	1/10W
R032	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R033	1-208-776-11	RES,CHIP	560	0.50%	1/10W
R035	1-216-013-00	RES,CHIP	33	5%	1/10W
R036	1-216-013-00	RES,CHIP	33	5%	1/10W
R037	1-216-033-00	RES,CHIP	220	5%	1/10W
R038	1-208-754-11	RES,CHIP	68	0.50%	1/10W
R039	1-208-800-11	RES,CHIP	5.6K	0.50%	1/10W
R040	1-208-754-11	RES,CHIP	68	0.50%	1/10W
R042	1-216-049-91	RES,CHIP	1K	5%	1/10W
R046	1-216-037-00	RES,CHIP	330	5%	1/10W
R048	1-216-025-91	RES,CHIP	100	5%	1/10W
R050	1-216-049-91	RES,CHIP	1K	5%	1/10W
R052	1-208-754-11	RES,CHIP	68	0.50%	1/10W
R059	1-216-295-91	SHORT	0		
R060	1-208-754-11	RES,CHIP	68	0.50%	1/10W
R061	1-216-025-91	RES,CHIP	100	5%	1/10W
R064	1-216-041-00	RES,CHIP	470	5%	1/10W
R065	1-216-025-91	RES,CHIP	100	5%	1/10W
R066	1-216-033-00	RES,CHIP	220	5%	1/10W
R067	1-216-033-00	RES,CHIP	220	5%	1/10W
R070	1-216-033-00	RES,CHIP	220	5%	1/10W
R072	1-216-295-91	SHORT	0		
R073	1-216-295-91	SHORT	0		
R074	1-216-295-91	SHORT	0		
R075	1-216-295-91	SHORT	0		
R076	1-216-295-91	SHORT	0		
R077	1-216-295-91	SHORT	0		
R078	1-208-797-11	RES,CHIP	4.3K	0.50%	1/10W
R079	1-216-025-91	RES,CHIP	100	5%	1/10W
R080	1-216-025-91	RES,CHIP	100	5%	1/10W
R081	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R082	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R086	1-216-051-00	RES,CHIP	1.2K	5%	1/10W

REF. NO.	PART NO.	DESCRIPTION			REMARK
R087	1-216-117-00	RES,CHIP	680K	5%	1/10W
R090	1-216-025-91	RES,CHIP	100	5%	1/10W
R091	1-216-295-91	SHORT	0		
R093	1-216-061-00	RES,CHIP	3.3K	5%	1/10W
R094	1-216-051-00	RES,CHIP	1.2K	5%	1/10W
R098	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R099	1-216-117-00	RES,CHIP	680K	5%	1/10W
R100	1-216-053-00	RES,CHIP	1.5K	5%	1/10W
R101	1-216-295-91	SHORT	0		
R102	1-216-041-00	RES,CHIP	470	5%	1/10W
R106	1-216-085-00	RES,CHIP	33K	5%	1/10W
R107	1-216-295-91	SHORT	0		
R108	1-216-017-91	RES,CHIP	47	5%	1/10W
R109	1-216-295-91	SHORT	0		
R110	1-216-017-91	RES,CHIP	47	5%	1/10W
R111	1-216-295-91	SHORT	0		
R112	1-216-049-91	RES,CHIP	1K	5%	1/10W
R113	1-216-033-00	RES,CHIP	220	5%	1/10W
R118	1-216-025-91	RES,CHIP	100	5%	1/10W
R119	1-216-085-00	RES,CHIP	33K	5%	1/10W
R120	1-216-295-91	SHORT	0		
R121	1-216-053-00	RES,CHIP	1.5K	5%	1/10W
R122	1-216-061-00	RES,CHIP	3.3K	5%	1/10W
R123	1-216-025-91	RES,CHIP	100	5%	1/10W
R124	1-216-049-91	RES,CHIP	1K	5%	1/10W
R125	1-208-762-11	RES,CHIP	150	0.50%	1/10W
R127	1-216-049-91	RES,CHIP	1K	5%	1/10W
R128	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R129	1-216-025-91	RES,CHIP	100	5%	1/10W
R130	1-216-655-11	RES,CHIP	1.5K	0.50%	1/10W
R131	1-216-033-00	RES,CHIP	220	5%	1/10W
R132	1-216-025-91	RES,CHIP	100	5%	1/10W
R133	1-216-025-91	RES,CHIP	100	5%	1/10W
R134	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R135	1-216-053-00	RES,CHIP	1.5K	5%	1/10W
R136	1-216-061-00	RES,CHIP	3.3K	5%	1/10W
R137	1-208-769-11	RES,CHIP	300	0.50%	1/10W
R138	1-208-770-11	RES,CHIP	330	0.50%	1/10W
R139	1-216-025-91	RES,CHIP	100	5%	1/10W
R140	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R141	1-216-117-00	RES,CHIP	680K	5%	1/10W
R142	1-208-782-11	RES,CHIP	1K	0.50%	1/10W
R143	1-216-049-91	RES,CHIP	1K	5%	1/10W
R144	1-216-041-00	RES,CHIP	470	5%	1/10W
R145	1-216-085-00	RES,CHIP	33K	5%	1/10W
R146	1-208-800-11	RES,CHIP	5.6K	0.50%	1/10W
R147	1-216-049-91	RES,CHIP	1K	5%	1/10W
R148	1-208-769-11	RES,CHIP	300	0.50%	1/10W
R149	1-216-025-91	RES,CHIP	100	5%	1/10W
R150	1-208-762-11	RES,CHIP	150	0.50%	1/10W
R151	1-216-655-11	RES,CHIP	1.5K	0.50%	1/10W
R153	1-208-776-11	RES,CHIP	560	0.50%	1/10W
R154	1-216-025-91	RES,CHIP	100	5%	1/10W
R155	1-208-798-11	RES,CHIP	4.7K	0.50%	1/10W
R156	1-208-774-11	RES,CHIP	470	0.50%	1/10W
R157	1-216-057-00	RES,CHIP	2.2K	5%	1/10W

REF. NO.	PART NO.	DESCRIPTION			REMARK
R159	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R160	1-208-776-11	RES,CHIP	560	0.50%	1/10W
R161	1-216-295-91	SHORT	0		
R163	1-208-762-11	RES,CHIP	150	0.50%	1/10W
R164	1-216-655-11	RES,CHIP	1.5K	0.50%	1/10W
R165	1-208-800-11	RES,CHIP	5.6K	0.50%	1/10W
R166	1-216-049-91	RES,CHIP	1K	5%	1/10W
R167	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R170	1-216-019-00	RES,CHIP	56	5%	1/10W
R171	1-216-121-91	RES,CHIP	1M	5%	1/10W
R172	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R173	1-208-776-11	RES,CHIP	560	0.50%	1/10W
R175	1-216-049-91	RES,CHIP	1K	5%	1/10W
R176	1-216-049-91	RES,CHIP	1K	5%	1/10W
R177	1-216-049-91	RES,CHIP	1K	5%	1/10W
R178	1-216-025-91	RES,CHIP	100	5%	1/10W
R181	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R182	1-208-800-11	RES,CHIP	5.6K	0.50%	1/10W
R183	1-216-049-91	RES,CHIP	1K	5%	1/10W
R185	1-216-049-91	RES,CHIP	1K	5%	1/10W
R194	1-216-295-91	SHORT	0		
R195	1-216-049-91	RES,CHIP	1K	5%	1/10W
R198	1-216-025-91	RES,CHIP	100	5%	1/10W
R200	1-208-754-11	RES,CHIP	68	0.50%	1/10W
R201	1-216-033-00	RES,CHIP	220	5%	1/10W
R202	1-216-037-00	RES,CHIP	330	5%	1/10W
R203	1-216-049-91	RES,CHIP	1K	5%	1/10W
R204	1-216-049-91	RES,CHIP	1K	5%	1/10W
R205	1-216-049-91	RES,CHIP	1K	5%	1/10W
R206	1-208-754-11	RES,CHIP	68	0.50%	1/10W
R207	1-208-754-11	RES,CHIP	68	0.50%	1/10W
R208	1-208-770-11	RES,CHIP	330	0.50%	1/10W
R210	1-216-013-00	RES,CHIP	33	5%	1/10W
R212	1-216-013-00	RES,CHIP	33	5%	1/10W
R214	1-216-041-00	RES,CHIP	470	5%	1/10W
R215	1-216-295-91	SHORT	0		
R216	1-208-794-11	RES,CHIP	3.3K	0.50%	1/10W
R217	1-216-051-00	RES,CHIP	1.2K	5%	1/10W
R218	1-216-117-00	RES,CHIP	680K	5%	1/10W
R219	1-216-013-00	RES,CHIP	33	5%	1/10W
R220	1-208-754-11	RES,CHIP	68	0.50%	1/10W
R221	1-208-754-11	RES,CHIP	68	0.50%	1/10W
R222	1-208-754-11	RES,CHIP	68	0.50%	1/10W
R223	1-208-754-11	RES,CHIP	68	0.50%	1/10W
R226	1-216-295-91	SHORT	0		
R227	1-216-295-91	SHORT	0		
R228	1-216-295-91	SHORT	0		
R229	1-216-295-91	SHORT	0		
R230	1-216-295-91	SHORT	0		
R231	1-216-295-91	SHORT	0		
R232	1-216-295-91	SHORT	0		
R233	1-216-295-91	SHORT	0		
R234	1-216-295-91	SHORT	0		
R235	1-216-295-91	SHORT	0		
R236	1-216-295-91	SHORT	0		
R237	1-216-295-91	SHORT	0		

REF. NO.	PART NO.	DESCRIPTION			REMARK
R238	1-216-295-91	SHORT	0		
R239	1-216-295-91	SHORT	0		
R240	1-216-295-91	SHORT	0		
R241	1-216-295-91	SHORT	0		
R242	1-216-295-91	SHORT	0		
R243	1-216-295-91	SHORT	0		
R244	1-216-295-91	SHORT	0		
R245	1-216-295-91	SHORT	0		
R246	1-216-295-91	SHORT	0		
R247	1-216-295-91	SHORT	0		
R248	1-216-295-91	SHORT	0		
R249	1-216-295-91	SHORT	0		
R250	1-216-295-91	SHORT	0		
R251	1-216-295-91	SHORT	0		
R252	1-216-295-91	SHORT	0		
R253	1-216-295-91	SHORT	0		
R254	1-216-049-91	RES,CHIP	1K	5%	1/10W
R257	1-216-295-91	SHORT	0		
R258	1-216-049-91	RES,CHIP	1K	5%	1/10W
R259	1-216-295-91	SHORT	0		
R260	1-216-295-91	SHORT	0		
R261	1-216-295-91	SHORT	0		
R262	1-216-295-91	SHORT	0		
R263	1-216-295-91	SHORT	0		
R273	1-216-033-00	RES,CHIP	220	5%	1/10W
R274	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
		<CRYSTAL>			
X001	1-767-924-21	VIBRATOR, CRYSTAL			
X002	1-767-654-21	VIBRATOR, CRYSTAL			

****

* A-1294-476-A AW BOARD, COMPLETE
****

		<CAPACITOR>			
C4701	1-117-720-11	CERAMIC CHIP	4.7µF		10V
C4702	1-117-720-11	CERAMIC CHIP	4.7µF		10V
C4703	1-117-720-11	CERAMIC CHIP	4.7µF		10V
C4704	1-109-982-11	CERAMIC CHIP	1µF	10%	10V
C4705	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C4706	1-163-031-11	CERAMIC CHIP	0.01µF		50V
C4707	1-163-009-11	CERAMIC CHIP	0.001µF	10%	50V
C4708	1-163-009-11	CERAMIC CHIP	0.001µF	10%	50V
C4709	1-163-009-11	CERAMIC CHIP	0.001µF	10%	50V
C4710	1-163-033-91	CERAMIC CHIP	0.022µF		50V
C4711	1-163-009-11	CERAMIC CHIP	0.001µF	10%	50V
C4712	1-117-720-11	CERAMIC CHIP	4.7µF		10V
C4713	1-117-720-11	CERAMIC CHIP	4.7µF		10V
C4714	1-163-231-11	CERAMIC CHIP	15PF	5%	50V
C4715	1-163-231-11	CERAMIC CHIP	15PF	5%	50V
C4716	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C4717	1-117-720-11	CERAMIC CHIP	4.7µF		10V
C4718	1-163-135-00	CERAMIC CHIP	560PF	5%	50V
C4719	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C4720	1-164-344-11	CERAMIC CHIP	0.068µF	10%	25V
C4721	1-163-019-00	CERAMIC CHIP	0.0068µF	10%	50V
C4722	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C4723	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C4724	1-163-009-11	CERAMIC CHIP	0.001µF	10%	50V
C4725	1-117-720-11	CERAMIC CHIP	4.7µF		10V
C4726	1-117-720-11	CERAMIC CHIP	4.7µF		10V
C4727	1-117-720-11	CERAMIC CHIP	4.7µF		10V
C4728	1-109-982-11	CERAMIC CHIP	1µF	10%	10V
C4729	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C4730	1-163-009-11	CERAMIC CHIP	0.001µF	10%	50V
C4731	1-163-031-11	CERAMIC CHIP	0.01µF		50V
C4732	1-163-009-11	CERAMIC CHIP	0.001µF	10%	50V
C4733	1-163-009-11	CERAMIC CHIP	0.001µF	10%	50V
C4734	1-163-009-11	CERAMIC CHIP	0.001µF	10%	50V
C4735	1-163-033-91	CERAMIC CHIP	0.022µF		50V
C4736	1-163-009-11	CERAMIC CHIP	0.001µF	10%	50V
C4737	1-117-720-11	CERAMIC CHIP	4.7µF		10V
C4738	1-117-720-11	CERAMIC CHIP	4.7µF		10V
C4739	1-163-231-11	CERAMIC CHIP	15PF	5%	50V
C4740	1-163-231-11	CERAMIC CHIP	15PF	5%	50V
		<CONNECTOR>			
CN4701*	1-691-176-11	CONNECTOR (BOARD TO BOARD) 6P			
CN4702*	1-691-176-11	CONNECTOR (BOARD TO BOARD) 6P			
		<IC>			
IC4701	8-752-383-03	IC CXD2053AM-T6			
IC4702	8-759-575-50	IC Z86130			
IC4703	8-752-383-03	IC CXD2053AM-T6			
		<COIL>			
L4701	1-414-234-22	INDUCTOR CHIP 0µH			
L4702	1-414-234-22	INDUCTOR CHIP 0µH			
L4703	1-414-234-22	INDUCTOR CHIP 0µH			
L4704	1-414-234-22	INDUCTOR CHIP 0µH			
L4705	1-414-234-22	INDUCTOR CHIP 0µH			
		<TRANSISTOR>			
Q4701	8-729-422-27	TRANSISTOR 2SD601A-Q			
Q4702	8-729-422-27	TRANSISTOR 2SD601A-Q			
Q4703	8-729-422-27	TRANSISTOR 2SD601A-Q			
		<RESISTOR>			
R4701	1-216-025-91	RES,CHIP	100	5%	1/10W
R4702	1-216-025-91	RES,CHIP	100	5%	1/10W
R4703	1-216-025-91	RES,CHIP	100	5%	1/10W
R4704	1-216-049-91	RES,CHIP	1K	5%	1/10W
R4705	1-216-025-91	RES,CHIP	100	5%	1/10W

REF. NO.	PART NO.	DESCRIPTION			REMARK
R4706	1-216-025-91	RES,CHIP	100	5%	1/10W
R4707	1-216-013-00	RES,CHIP	33	5%	1/10W
R4708	1-216-005-00	RES,CHIP	15	5%	1/10W
R4709	1-216-025-91	RES,CHIP	100	5%	1/10W
R4710	1-216-025-91	RES,CHIP	100	5%	1/10W
R4711	1-216-025-91	RES,CHIP	100	5%	1/10W
R4712	1-216-085-00	RES,CHIP	33K	5%	1/10W
R4713	1-216-001-00	RES,CHIP	10	5%	1/10W
R4714	1-216-025-91	RES,CHIP	100	5%	1/10W
R4715	1-216-025-91	RES,CHIP	100	5%	1/10W
R4716	1-216-025-91	RES,CHIP	100	5%	1/10W
R4717	1-216-025-91	RES,CHIP	100	5%	1/10W
R4718	1-216-025-91	RES,CHIP	100	5%	1/10W
R4719	1-216-041-00	RES,CHIP	470	5%	1/10W
R4720	1-216-025-91	RES,CHIP	100	5%	1/10W
R4721	1-216-069-00	RES,CHIP	6.8K	5%	1/10W
R4722	1-216-073-00	RES,CHIP	10K	5%	1/10W
R4723	1-216-025-91	RES,CHIP	100	5%	1/10W
R4724	1-216-025-91	RES,CHIP	100	5%	1/10W
R4725	1-216-025-91	RES,CHIP	100	5%	1/10W
R4726	1-216-025-91	RES,CHIP	100	5%	1/10W
R4727	1-216-025-91	RES,CHIP	100	5%	1/10W
R4728	1-216-049-91	RES,CHIP	1K	5%	1/10W
R4729	1-216-025-91	RES,CHIP	100	5%	1/10W
R4730	1-216-025-91	RES,CHIP	100	5%	1/10W
R4731	1-216-013-00	RES,CHIP	33	5%	1/10W
R4732	1-216-005-00	RES,CHIP	15	5%	1/10W
R4733	1-216-025-91	RES,CHIP	100	5%	1/10W
R4734	1-216-025-91	RES,CHIP	100	5%	1/10W
R4735	1-216-025-91	RES,CHIP	100	5%	1/10W
R4736	1-216-085-00	RES,CHIP	33K	5%	1/10W
R4737	1-216-001-00	RES,CHIP	10	5%	1/10W
R4738	1-216-025-91	RES,CHIP	100	5%	1/10W

<CRYSTAL>

X4701	1-767-367-21	VIBRATOR,CERAMIC			
X4702	1-767-367-21	VIBRATOR,CERAMIC			

****

* A-1298-773-A A BOARD, COMPLETE
****

4-382-854-11 SCREW (M3X10), P, SW (+)

<CAPACITOR>

C501	1-126-933-11	ELECT	100µF	20%	16V
C502	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C503	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C504	1-104-665-11	ELECT	100µF	20%	25V
C505	1-163-031-11	CERAMIC CHIP	0.01µF		50V
C506	1-164-505-11	CERAMIC CHIP	2.2µF		16V
C507	1-126-933-11	ELECT	100µF	20%	16V
C510	1-126-916-11	ELECT	1000µF	20%	6.3V
C511	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C512	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C513	1-126-933-11	ELECT	100µF	20%	16V
C514	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C515	1-104-664-11	ELECT	47µF	20%	25V
C516	1-104-664-11	ELECT	47µF	20%	25V
C517	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C518	1-126-933-11	ELECT	100µF	20%	16V
C519	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C520	1-126-964-11	ELECT	10µF	20%	50V
C521	1-163-145-00	CERAMIC CHIP	0.0015µF	5%	50V
C522	1-163-143-00	CERAMIC CHIP	0.0012µF	5%	50V
C523	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C524	1-104-664-11	ELECT	47µF	20%	25V
C525	1-163-137-00	CERAMIC CHIP	680PF	5%	50V
C526	1-163-017-00	CERAMIC CHIP	0.0047µF	10%	50V
C527	1-126-933-11	ELECT	100µF	20%	16V
C528	1-126-916-11	ELECT	1000µF	20%	6.3V
C529	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C530	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C531	1-126-933-11	ELECT	100µF	20%	16V
C532	1-126-933-11	ELECT	100µF	20%	16V
C533	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C534	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C535	1-104-665-11	ELECT	100µF	20%	25V
C536	1-164-161-11	CERAMIC CHIP	0.0022µF	10%	50V
C537	1-104-664-11	ELECT	47µF	20%	25V
C538	1-126-964-11	ELECT	10µF	20%	50V
C539	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C540	1-126-918-11	ELECT	4700µF	20%	6.3V
C541	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C542	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C543	1-126-960-11	ELECT	1µF	20%	50V
C545	1-126-964-11	ELECT	10µF	20%	50V
C546	1-163-145-00	CERAMIC CHIP	0.0015µF	5%	50V
C548	1-163-012-00	CERAMIC CHIP	0.0018µF	5%	50V
C550	1-163-127-00	CERAMIC CHIP	270PF	5%	50V
C551	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C552	1-126-934-11	ELECT	220µF	20%	16V
C553	1-126-960-11	ELECT	1µF	20%	50V
C554	1-163-809-11	CERAMIC CHIP	0.047µF	10%	25V
C555	1-163-259-91	CERAMIC CHIP	220PF	5%	50V
C557	1-126-960-11	ELECT	1µF	20%	50V
C558	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C559	1-126-964-11	ELECT	10µF	20%	50V
C560	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C561	1-104-664-11	ELECT	47µF	20%	25V
C562	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C563	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C564	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C567	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C569	1-163-809-11	CERAMIC CHIP	0.047µF	10%	25V
C570	1-163-259-91	CERAMIC CHIP	220PF	5%	50V
C571	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C572	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C574	1-126-960-11	ELECT	1µF	20%	50V

REF. NO.	PART NO.	DESCRIPTION			REMARK
C575	1-109-982-11	CERAMIC CHIP	1µF	10%	10V
C576	1-164-182-11	CERAMIC CHIP	0.0033µF	10%	50V
C577	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C580	1-164-182-11	CERAMIC CHIP	0.0033µF	10%	50V
C581	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C582	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C583	1-107-823-11	CERAMIC CHIP	0.47µF	10%	16V
C584	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C585	1-126-933-11	ELECT	100µF	20%	16V
C586	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C587	1-104-664-11	ELECT	47µF	20%	25V
C588	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C589	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C590	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C591	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C593	1-126-963-11	ELECT	4.7µF	20%	50V
C595	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C596	1-107-823-11	CERAMIC CHIP	0.47µF	10%	16V
C598	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C599	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C600	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C601	1-164-489-11	CERAMIC CHIP	0.22µF	10%	16V
C602	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C603	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C604	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C605	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C606	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C607	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C608	1-126-964-11	ELECT	10µF	20%	50V
C610	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C611	1-115-339-11	CERAMIC CHIP	0.1µF	10%	50V
C612	1-104-664-11	ELECT	47µF	20%	25V
C613	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C614	1-164-161-11	CERAMIC CHIP	0.0022µF	10%	50V
C615	1-126-933-11	ELECT	100µF	20%	16V
C616	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C617	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C618	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C619	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C621	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C622	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C623	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C624	1-104-664-11	ELECT	47µF	20%	25V
C625	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C626	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C627	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C628	1-104-664-11	ELECT	47µF	20%	25V
C629	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C630	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C631	1-164-346-11	CERAMIC CHIP	1µF		16V
C632	1-109-982-11	CERAMIC CHIP	1µF	10%	10V
C636	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C637	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C638	1-164-489-11	CERAMIC CHIP	0.22µF	10%	16V
C639	1-126-933-11	ELECT	100µF	20%	16V
C641	1-104-664-11	ELECT	47µF	20%	25V
C642	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C643	1-163-259-91	CERAMIC CHIP	220PF	5%	50V
C644	1-164-161-11	CERAMIC CHIP	0.0022µF	10%	50V
C646	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C647	1-104-664-11	ELECT	47µF	20%	25V
C648	1-107-823-11	CERAMIC CHIP	0.47µF	10%	16V
C649	1-107-823-11	CERAMIC CHIP	0.47µF	10%	16V
C650	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C651	1-164-161-11	CERAMIC CHIP	0.0022µF	10%	50V
C652	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C653	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C654	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C655	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C656	1-126-964-11	ELECT	10µF	20%	50V
C657	1-163-009-11	CERAMIC CHIP	0.001µF	10%	50V
C658	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C659	1-104-664-11	ELECT	47µF	20%	25V
C660	1-163-009-11	CERAMIC CHIP	0.001µF	10%	50V
C661	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C664	1-104-664-11	ELECT	47µF	20%	25V
C665	1-104-664-11	ELECT	47µF	20%	25V
C666	1-165-319-11	CERAMIC CHIP	0.1µF	50V	
C667	1-164-161-11	CERAMIC CHIP	0.0022µF	10%	50V
C668	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C669	1-126-935-11	ELECT	470µF	20%	16V
C670	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C671	1-104-664-11	ELECT	47µF	20%	25V
C672	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C673	1-126-965-11	ELECT	22µF	20%	50V
C675	1-110-501-11	CERAMIC CHIP	0.33µF	10%	16V
C676	1-104-664-11	ELECT	47µF	20%	25V
C677	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C678	1-164-161-11	CERAMIC CHIP	0.0022µF	10%	50V
C683	1-164-690-91	CERAMIC CHIP	0.0022µF	5%	50V
C685	1-126-960-11	ELECT	1µF	20%	50V
C686	1-126-965-11	ELECT	22µF	20%	50V
C687	1-126-960-11	ELECT	1µF	20%	50V
C688	1-126-960-11	ELECT	1µF	20%	50V
C689	1-126-965-11	ELECT	22µF	20%	50V
C690	1-126-960-11	ELECT	1µF	20%	50V
C691	1-126-964-11	ELECT	10µF	20%	50V
C692	1-126-964-11	ELECT	10µF	20%	50V
C693	1-126-965-11	ELECT	22µF	20%	50V
C694	1-126-965-11	ELECT	22µF	20%	50V
C696	1-126-965-11	ELECT	22µF	20%	50V
C697	1-126-965-11	ELECT	22µF	20%	50V
C698	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C701	1-126-965-11	ELECT	22µF	20%	50V
C702	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C703	1-126-965-11	ELECT	22µF	20%	50V
C704	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C706	1-126-965-11	ELECT	22µF	20%	50V
C707	1-126-960-11	ELECT	1µF	20%	50V
C708	1-126-960-11	ELECT	1µF	20%	50V
C712	1-126-965-11	ELECT	22µF	20%	50V
C713	1-126-960-11	ELECT	1µF	20%	50V

REF. NO.	PART NO.	DESCRIPTION			REMARK
C714	1-126-960-11	ELECT	1µF	20%	50V
C715	1-126-965-11	ELECT	22µF	20%	50V
C716	1-126-960-11	ELECT	1µF	20%	50V
C717	1-126-960-11	ELECT	1µF	20%	50V
C718	1-126-935-11	ELECT	470µF	20%	16V
C771	1-126-965-11	ELECT	22µF	20%	50V
C772	1-126-965-11	ELECT	22µF	20%	50V
C773	1-126-960-11	ELECT	1µF	20%	50V
C774	1-126-960-11	ELECT	1µF	20%	50V
C775	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C1001	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C1002	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C1003	1-104-664-11	ELECT	47µF	20%	25V
C1005	1-104-664-11	ELECT	47µF	20%	25V
C1006	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C1007	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C1012	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C1013	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C1014	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C1015	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C1016	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C1017	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C1020	1-164-346-11	CERAMIC CHIP	1µF		16V
C1022	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C1023	1-126-935-11	ELECT	470µF	20%	6.3V
C1025	1-126-965-11	ELECT	22µF	20%	50V
C1026	1-163-809-11	CERAMIC CHIP	0.047µF	10%	25V
C1027	1-110-501-11	CERAMIC CHIP	0.33µF	10%	16V
C1029	1-164-346-11	CERAMIC CHIP	1µF		16V
C1030	1-109-982-11	CERAMIC CHIP	1µF	10%	10V
C1031	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C1032	1-104-664-11	ELECT	47µF	20%	25V
C1033	1-126-964-11	ELECT	10µF	20%	50V
C1034	1-164-346-11	CERAMIC CHIP	1µF		16V
C1035	1-163-237-11	CERAMIC CHIP	27PF	5%	50V
C1036	1-164-161-11	CERAMIC CHIP	0.0022µF	10%	50V
C1037	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C1038	1-104-664-11	ELECT	47µF	20%	25V
C1039	1-164-346-11	CERAMIC CHIP	1µF		16V
C1040	1-163-237-11	CERAMIC CHIP	27PF	5%	50V
C1041	1-163-233-11	CERAMIC CHIP	18PF	5%	50V
C1042	1-163-233-11	CERAMIC CHIP	18PF	5%	50V
C1043	1-107-823-11	CERAMIC CHIP	0.47µF	10%	16V
C1044	1-164-161-11	CERAMIC CHIP	0.0022µF	10%	50V
C1045	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C1046	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C1048	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C1049	1-104-664-11	ELECT	47µF	20%	25V
C1050	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C1051	1-104-664-11	ELECT	47µF	20%	25V
C1052	1-107-823-11	CERAMIC CHIP	0.47µF	10%	16V
C1301	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C1302	1-104-664-11	ELECT	47µF	20%	25V
C1303	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C1304	1-165-319-11	CERAMIC CHIP	0.1µF		50V
C1305	1-165-319-11	CERAMIC CHIP	0.1µF		50V

REF. NO.	PART NO.	DESCRIPTION			REMARK
C1306	1-165-319-11	CERAMIC CHIP	0.1µF		50V
C1307	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C1309	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V
C1310	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V
C1311	1-109-982-11	CERAMIC CHIP	1µF	10%	10V
C1312	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V
C1313	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C1314	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C1315	1-163-137-00	CERAMIC CHIP	680PF	5%	50V
C1316	1-104-664-11	ELECT	47µF	20%	25V
C1318	1-104-664-11	ELECT	47µF	20%	25V
C1319	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C1321	1-163-017-00	CERAMIC CHIP	0.0047µF	10%	50V
C1323	1-107-823-11	CERAMIC CHIP	0.47µF	10%	16V
C1325	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C1326	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C1327	1-126-963-11	ELECT	4.7µF	20%	50V
C1328	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C1329	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C1330	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C1331	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C1332	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C1334	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C1335	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C1336	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C1337	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C1338	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C1339	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C1340	1-126-960-11	ELECT	1µF	20%	50V
C1341	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C1342	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C1343	1-107-823-11	CERAMIC CHIP	0.47µF	10%	16V
C1344	1-104-664-11	ELECT	47µF	20%	25V
C1345	1-104-664-11	ELECT	47µF	20%	25V
C1346	1-104-664-11	ELECT	47µF	20%	25V
C1347	1-104-664-11	ELECT	47µF	20%	25V
C1348	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C1349	1-163-231-11	CERAMIC CHIP	15PF	5%	50V
C1351	1-126-934-11	ELECT	220µF	20%	16V
C1352	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C1353	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C1354	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C1355	1-104-664-11	ELECT	47µF	20%	25V
C1357	1-126-934-11	ELECT	220µF	20%	16V
C1358	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C1359	1-104-664-11	ELECT	47µF	20%	25V
C1363	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C1364	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C1365	1-104-664-11	ELECT	47µF	20%	25V
C1366	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C1370	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C1376	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C1380	1-109-982-11	CERAMIC CHIP	1µF	10%	10V
C1381	1-163-137-00	CERAMIC CHIP	680PF	5%	50V
C1382	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C1383	1-163-038-91	CERAMIC CHIP	0.1µF		25V

REF. NO.	PART NO.	DESCRIPTION			REMARK
C1384	1-164-505-11	CERAMIC CHIP	2.2µF		16V
C1385	1-163-017-00	CERAMIC CHIP	0.0047µF	10%	50V
C1386	1-165-319-11	CERAMIC CHIP	0.1µF		50V
C1388	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C1389	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C1392	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C1394	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C1398	1-126-964-11	ELECT	10µF	20%	50V
C1399	1-109-982-11	CERAMIC CHIP	1µF	10%	10V
C1400	1-107-823-11	CERAMIC CHIP	0.47µF	10%	16V
C1401	1-126-963-11	ELECT	4.7µF	20%	50V
C1402	1-163-241-11	CERAMIC CHIP	39PF	5%	50V
C1403	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C1405	1-163-231-11	CERAMIC CHIP	15PF	5%	50V
C1406	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C1407	1-104-664-11	ELECT	47µF	20%	25V
C1408	1-104-664-11	ELECT	47µF	20%	25V
C1409	1-163-249-11	CERAMIC CHIP	82PF	5%	50V
C1410	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C1411	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C1413	1-126-960-11	ELECT	1µF	20%	50V
C1414	1-107-823-11	CERAMIC CHIP	0.47µF	10%	16V
C1415	1-165-319-11	CERAMIC CHIP	0.1µF		50V
C1417	1-165-319-11	CERAMIC CHIP	0.1µF		50V
C1418	1-104-664-11	ELECT	47µF	20%	25V
C1419	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C1422	1-163-231-11	CERAMIC CHIP	15PF	5%	50V
C1423	1-165-319-11	CERAMIC CHIP	0.1µF		50V
C1424	1-165-319-11	CERAMIC CHIP	0.1µF		50V
C1425	1-165-319-11	CERAMIC CHIP	0.1µF		50V
C1426	1-165-319-11	CERAMIC CHIP	0.1µF		50V
C1427	1-165-319-11	CERAMIC CHIP	0.1µF		50V
C1428	1-126-934-11	ELECT	220µF	20%	16V
C1429	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C1430	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C1431	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C1432	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C1433	1-115-339-11	CERAMIC CHIP	0.1µF	10%	50V
C1434	1-165-319-11	CERAMIC CHIP	0.1µF		50V
C1435	1-165-319-11	CERAMIC CHIP	0.1µF		50V
C1436	1-163-231-11	CERAMIC CHIP	15PF	5%	50V
C1437	1-165-319-11	CERAMIC CHIP	0.1µF		50V
C1438	1-165-319-11	CERAMIC CHIP	0.1µF		50V
C1439	1-165-319-11	CERAMIC CHIP	0.1µF		50V
C1442	1-165-319-11	CERAMIC CHIP	0.1µF		50V
C1444	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C1445	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C1446	1-165-319-11	CERAMIC CHIP	0.1µF		50V
C1447	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C1448	1-165-319-11	CERAMIC CHIP	0.1µF		50V
C1449	1-126-964-11	ELECT	10µF	20%	50V
C1450	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V
C1451	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C1452	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C1453	1-164-505-11	CERAMIC CHIP	2.2µF		16V
C1454	1-126-935-11	ELECT	470µF	20%	6.3V
C1455	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C1456	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C1457	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C1458	1-164-505-11	CERAMIC CHIP	2.2µF		16V
C1460	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C1461	1-164-505-11	CERAMIC CHIP	2.2µF		16V
C1462	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C1463	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C1464	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C1465	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C1466	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C1467	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C1468	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C1469	1-163-121-00	CERAMIC CHIP	150PF	5%	50V
C1470	1-104-664-11	ELECT	47µF	20%	25V
C1471	1-104-664-11	ELECT	47µF	20%	25V
C1472	1-104-664-11	ELECT	47µF	20%	25V
C1475	1-163-231-11	CERAMIC CHIP	15PF	5%	50V
C1477	1-104-664-11	ELECT	47µF	20%	25V
C1478	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C1479	1-163-231-11	CERAMIC CHIP	15PF	5%	50V
C1480	1-165-319-11	CERAMIC CHIP	0.1µF		50V
C1481	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C1482	1-104-664-11	ELECT	47µF	20%	25V
C1483	1-104-664-11	ELECT	47µF	20%	25V
C1484	1-126-934-11	ELECT	220µF	20%	16V
C1485	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C1486	1-104-664-11	ELECT	47µF	20%	25V
C1487	1-165-319-11	CERAMIC CHIP	0.1µF		50V
C1488	1-165-319-11	CERAMIC CHIP	0.1µF		50V
C1489	1-165-319-11	CERAMIC CHIP	0.1µF		50V
C1490	1-165-319-11	CERAMIC CHIP	0.1µF		50V
C1491	1-126-960-11	ELECT	1µF	20%	50V
C1492	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C1493	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C1494	1-126-961-11	ELECT	2.2µF	20%	50V
C1495	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C1496	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C1497	1-163-031-11	CERAMIC CHIP	0.01µF		50V
C1498	1-163-031-11	CERAMIC CHIP	0.01µF		50V
C1601	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C1602	1-163-016-00	CERAMIC CHIP	0.0039µF	10%	50V
C1603	1-163-016-00	CERAMIC CHIP	0.0039µF	10%	50V
C1604	1-163-016-00	CERAMIC CHIP	0.0039µF	10%	50V
C1605	1-163-016-00	CERAMIC CHIP	0.0039µF	10%	50V
C1606	1-165-319-11	CERAMIC CHIP	0.1µF		50V
C1608	1-163-016-00	CERAMIC CHIP	0.0039µF	10%	50V
C1609	1-163-016-00	CERAMIC CHIP	0.0039µF	10%	50V
C1610	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C1611	1-163-016-00	CERAMIC CHIP	0.0039µF	10%	50V
C1612	1-163-016-00	CERAMIC CHIP	0.0039µF	10%	50V
C1613	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C1614	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C1615	1-107-823-11	CERAMIC CHIP	0.47µF	10%	16V
C1617	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C1619	1-107-823-11	CERAMIC CHIP	0.47µF	10%	16V

REF. NO.	PART NO.	DESCRIPTION		REMARK
C1621	1-163-038-91	CERAMIC CHIP	0.1µF	25V
C1623	1-107-823-11	CERAMIC CHIP	0.47µF 10%	16V
C1624	1-107-823-11	CERAMIC CHIP	0.47µF 10%	16V
C1626	1-163-038-91	CERAMIC CHIP	0.1µF	25V
C1628	1-107-823-11	CERAMIC CHIP	0.47µF 10%	16V
C1629	1-107-823-11	CERAMIC CHIP	0.47µF 10%	16V
C1631	1-163-038-91	CERAMIC CHIP	0.1µF	25V
C1633	1-107-823-11	CERAMIC CHIP	0.47µF 10%	16V
C1634	1-107-823-11	CERAMIC CHIP	0.47µF 10%	16V
C5501	1-163-251-11	CERAMIC CHIP	100PF 5%	50V
C5502	1-163-251-11	CERAMIC CHIP	100PF 5%	50V
C5503	1-163-009-11	CERAMIC CHIP	0.001µF 10%	50V
C5504	1-126-964-11	ELECT	10µF 20%	50V
C5505	1-163-133-00	CERAMIC CHIP	470PF 5%	50V
C5508	1-164-005-11	CERAMIC CHIP	0.47µF	25V
C5509	1-164-005-11	CERAMIC CHIP	0.47µF	25V
C5511	1-163-243-11	CERAMIC CHIP	47PF 5%	50V
C5512	1-163-038-91	CERAMIC CHIP	0.1µF	25V
C5513	1-163-038-91	CERAMIC CHIP	0.1µF	25V
C5514	1-107-823-11	CERAMIC CHIP	0.47µF 10%	16V
C5515	1-107-823-11	CERAMIC CHIP	0.47µF 10%	16V
C5516	1-107-823-11	CERAMIC CHIP	0.47µF 10%	16V
C5517	1-107-823-11	CERAMIC CHIP	0.47µF 10%	16V
C5518	1-107-823-11	CERAMIC CHIP	0.47µF 10%	16V
C5519	1-107-823-11	CERAMIC CHIP	0.47µF 10%	16V
C5520	1-107-823-11	CERAMIC CHIP	0.47µF 10%	16V
C5521	1-107-823-11	CERAMIC CHIP	0.47µF 10%	16V
C5522	1-107-823-11	CERAMIC CHIP	0.47µF 10%	16V
C5601	1-163-038-91	CERAMIC CHIP	0.1µF	25V
C5602	1-104-664-11	ELECT	47µF 20%	25V
C5603	1-163-038-91	CERAMIC CHIP	0.1µF	25V
C5604	1-163-251-11	CERAMIC CHIP	100PF 5%	50V
C5701	1-164-346-11	CERAMIC CHIP	1µF	16V
C5702	1-164-346-11	CERAMIC CHIP	1µF	16V
C5703	1-164-346-11	CERAMIC CHIP	1µF	16V
C5704	1-163-038-91	CERAMIC CHIP	0.1µF	25V
C5705	1-163-243-11	CERAMIC CHIP	47PF 5%	50V
C5706	1-163-133-00	CERAMIC CHIP	470PF 5%	50V
C5801	1-163-038-91	CERAMIC CHIP	0.1µF	25V
C5802	1-163-038-91	CERAMIC CHIP	0.1µF	25V
C5803	1-163-017-00	CERAMIC CHIP	0.0047µF 10%	50V
C5804	1-163-038-91	CERAMIC CHIP	0.1µF	25V

<FILTER BLOCK>

CM501	1-467-554-21	FILTER BLOCK, COMB	

<CONNECTOR>

CN501 *	1-564-506-11	PLUG, CONNECTOR	3P
CN502 *	1-564-506-11	PLUG, CONNECTOR	3P
CN503 *	1-564-511-11	PLUG, CONNECTOR	8P
CN504 *	1-564-512-11	PLUG, CONNECTOR	9P
CN505 *	1-564-510-11	PLUG, CONNECTOR	7P
CN506 *	1-779-892-11	CONNECTOR, BOARD TO BOARD	10P
CN507	1-695-915-11	TAB (CONTACT)	
CN508 *	1-564-507-11	PLUG, CONNECTOR	4P
CN509 *	1-779-892-11	CONNECTOR, BOARD TO BOARD	10P
CN510 *	1-564-510-11	PLUG, CONNECTOR	7P
CN511	1-573-298-21	CONNECTOR, BOARD TO BOARD	20P
CN512 *	1-564-513-11	PLUG, CONNECTOR	10P
CN513	1-573-298-21	CONNECTOR, BOARD TO BOARD	20P
CN514 *	1-564-510-11	PLUG, CONNECTOR	7P
CN515 *	1-764-334-11	PLUG, CONNECTOR	11P
CN516	1-573-978-21	CONNECTOR, BOARD TO BOARD	11P
CN517 *	1-779-892-11	CONNECTOR, BOARD TO BOARD	10P
CN518	1-573-298-21	CONNECTOR, BOARD TO BOARD	20P
CN519 *	1-779-892-11	CONNECTOR, BOARD TO BOARD	10P
CN521	1-573-979-21	CONNECTOR, BOARD TO BOARD	11P
CN522	1-573-298-21	CONNECTOR, BOARD TO BOARD	20P
CN523	1-573-298-21	CONNECTOR, BOARD TO BOARD	20P
CN524 *	1-564-509-11	PLUG, CONNECTOR	6P
CN525 *	1-564-511-61	PLUG, CONNECTOR	8P
CN526 *	1-564-511-11	PLUG, CONNECTOR	8P
CN5501*	1-564-513-11	PLUG, CONNECTOR	10P
CN5502*	1-764-334-11	PLUG, CONNECTOR	11P
CN5503*	1-564-515-11	PLUG, CONNECTOR	12P
CN5504*	1-564-512-11	PLUG, CONNECTOR	9P
CN5505*	1-564-507-11	PLUG, CONNECTOR	4P
CN5506*	1-564-513-11	PLUG, CONNECTOR	10P
CN5507*	1-564-511-11	PLUG, CONNECTOR	8P
CN5601	1-691-163-11	PIN, CONNECTOR	6P
CN5602	1-691-163-11	PIN, CONNECTOR	6P
CN5701*	1-564-512-11	PLUG, CONNECTOR	9P

<DIODE>

D501	8-719-404-50	DIODE	MA111-TX
D502	8-719-158-15	DIODE	RD5.6SB
D503	8-719-404-50	DIODE	MA111-TX
D504	8-719-404-50	DIODE	MA111-TX
D505	8-719-404-50	DIODE	MA111-TX
D506	8-719-056-84	DIODE	UDZ-TE-17-7.5B
D507	8-719-404-50	DIODE	MA111-TX
D508	8-719-404-50	DIODE	MA111-TX
D509	8-719-056-84	DIODE	UDZ-TE-17-7.5B
D510	8-719-056-84	DIODE	UDZ-TE-17-7.5B
D511	8-719-404-50	DIODE	MA111-TX
D513	8-719-404-50	DIODE	MA111-TX
D515	8-719-158-15	DIODE	RD5.6SB
D516	8-719-158-15	DIODE	RD5.6SB
D517	8-719-158-15	DIODE	RD5.6SB
D518	8-719-977-28	DIODE	DTZ10B
D519	8-719-977-28	DIODE	DTZ10B
D520	8-719-977-28	DIODE	DTZ10B
D521	8-719-404-50	DIODE	MA111-TX
D523	8-719-404-50	DIODE	MA111-TX
D524	8-719-977-28	DIODE	DTZ10B
D525	8-719-977-28	DIODE	DTZ10B
D528	8-719-977-28	DIODE	DTZ10B
D529	8-719-977-28	DIODE	DTZ10B
D530	8-719-977-28	DIODE	DTZ10B
D531	8-719-977-28	DIODE	DTZ10B
D532	8-719-977-28	DIODE	DTZ10B

REF. NO.	PART NO.	DESCRIPTION	REMARK
D534	8-719-977-28	DIODE DTZ10B	
D536	8-719-404-50	DIODE MA111-TX	
D537	8-719-977-28	DIODE DTZ10B	
D539	8-719-977-28	DIODE DTZ10B	
D540	8-719-977-28	DIODE DTZ10B	
D541	8-719-977-28	DIODE DTZ10B	
D542	8-719-977-28	DIODE DTZ10B	
D543	8-719-977-28	DIODE DTZ10B	
D545	8-719-977-28	DIODE DTZ10B	
D547	8-719-977-28	DIODE DTZ10B	
D550	8-719-977-28	DIODE DTZ10B	
D552	8-719-977-28	DIODE DTZ10B	
D553	8-719-977-28	DIODE DTZ10B	
D555	8-719-977-28	DIODE DTZ10B	
D556	8-719-977-28	DIODE DTZ10B	
D557	8-719-977-28	DIODE DTZ10B	
D558	8-719-977-81	DIODE DTZ33B	
D559	8-719-977-28	DIODE DTZ10B	
D560	8-719-977-28	DIODE DTZ10B	
D1001	8-719-404-50	DIODE MA111-TX	
D1002	8-719-404-50	DIODE MA111-TX	
D1005	8-719-404-50	DIODE MA111-TX	
D1006	8-719-404-50	DIODE MA111-TX	
D1007	8-719-404-50	DIODE MA111-TX	
D1008	8-719-404-50	DIODE MA111-TX	
D1009	8-719-404-50	DIODE MA111-TX	
D1601	8-719-976-99	DIODE DTZ5.1B	
D1602	8-719-976-99	DIODE DTZ5.1B	
D1603	8-719-976-99	DIODE DTZ5.1B	
D1604	8-719-976-99	DIODE DTZ5.1B	
D1605	8-719-976-99	DIODE DTZ5.1B	
D1614	8-719-976-99	DIODE DTZ5.1B	
D1615	8-719-976-99	DIODE DTZ5.1B	
D1616	8-719-976-99	DIODE DTZ5.1B	
D1618	8-719-404-50	DIODE MA111-TX	
D1620	8-719-404-50	DIODE MA111-TX	
D1623	8-719-404-50	DIODE MA111-TX	
D1625	8-719-404-50	DIODE MA111-TX	
D1626	8-719-404-50	DIODE MA111-TX	
D1628	8-719-404-50	DIODE MA111-TX	
D1630	8-719-404-50	DIODE MA111-TX	
D1632	8-719-404-50	DIODE MA111-TX	
D5501	8-719-404-50	DIODE MA111-TX	
D5502	8-719-056-84	DIODE UDZ-TE-17-7.5B	
D5503	8-719-404-50	DIODE MA111-TX	
D5504	8-719-404-50	DIODE MA111-TX	
D5505	8-719-404-50	DIODE MA111-TX	
D5506	8-719-158-15	DIODE RD5.6SB	
D5507	8-719-158-15	DIODE RD5.6SB	
D5508	8-719-158-15	DIODE RD5.6SB	
D5509	8-719-158-15	DIODE RD5.6SB	
D5510	8-719-158-15	DIODE RD5.6SB	
D5511	8-719-158-15	DIODE RD5.6SB	
D5512	8-719-404-50	DIODE MA111-TX	
D5513	8-719-404-50	DIODE MA111-TX	
D5514	8-719-404-50	DIODE MA111-TX	
D5515	8-719-404-50	DIODE MA111-TX	
D5516	8-719-404-50	DIODE MA111-TX	
D5517	8-719-404-50	DIODE MA111-TX	
D5518	8-719-404-50	DIODE MA111-TX	
D5519	8-719-158-15	DIODE RD5.6SB	
D5520	8-719-158-15	DIODE RD5.6SB	
D5601	8-719-404-50	DIODE MA111-TX	
D5602	8-719-404-50	DIODE MA111-TX	
D5603	8-719-404-50	DIODE MA111-TX	
D5604	8-719-404-50	DIODE MA111-TX	
D5702	8-719-158-15	DIODE RD5.6SB	
D5703	8-719-158-15	DIODE RD5.6SB	
D5704	8-719-158-15	DIODE RD5.6SB	
D5705	8-719-158-15	DIODE RD5.6SB	
		<FILTER>	
FL1301	1-239-847-11	FILTER, LOW PASS	
FL1302	1-239-847-11	FILTER, LOW PASS	
FL1303	1-239-847-11	FILTER, LOW PASS	
FL1304	1-239-847-11	FILTER, LOW PASS	
		<IC>	
IC501	8-759-231-58	IC TA7812S	
IC503	8-759-450-47	IC BA05T	
IC504	8-759-513-71	IC PQ05RF21	
IC505	8-759-198-03	IC PQ09RF21	
IC506	8-759-520-49	IC PQ30RV21	
IC507	8-759-083-85	IC LA7856A	
IC508	8-759-367-69	IC MC74HC74AFEL	
IC509	8-759-011-64	IC MC74HC4052F	
IC510	8-759-988-13	IC LM393PS	
IC511	8-752-086-13	IC CXA2101AQ	
IC512	8-752-379-93	IC CXD2018AQ-T6	
IC514	8-759-998-98	IC LM358D	
IC515	8-752-066-69	IC CXA1845Q	
IC516	8-759-242-76	IC TC7W08F	
IC517	8-759-239-34	IC TC74HC4538AF	
IC1001	8-759-575-89	IC LH5317VP	
IC1002	8-759-927-72	IC TL1591CP	
IC1003	8-759-925-75	IC SN74HC05ANS	
IC1004	8-759-575-90	IC MB90091A-150	
IC1005	8-759-352-91	IC PST9143NL	
IC1007	8-759-527-76	IC M24C08-MN6T	
IC1008	8-752-903-19	IC CXP85856A-022Q	
IC1009	8-752-905-93	IC CXP85460-219Q	
IC1010	8-759-352-91	IC PST9143NL	
IC1301	8-752-086-80	IC CXA2019AQ-T4	
IC1302	8-752-082-49	IC CXA2119M	
IC1304	8-759-568-27	IC MSM514265C-60JSDR1	
IC1305	8-752-086-80	IC CXA2019AQ-T4	
IC1306	8-759-536-12	IC UPD64081BGF-3BA	
IC1307	8-752-082-49	IC CXA2119M	
IC1309	8-759-161-24	IC UPC659AGS-E2	
IC1601	8-759-394-80	IC NJM2058M-TE2	
IC1603	8-759-009-07	IC MC14053BF	
IC1604	8-759-394-80	IC NJM2058M-TE2	

REF. NO.	PART NO.	DESCRIPTION	REMARK
IC1605	8-759-394-80	IC NJM2058M-TE2	
IC1606	8-759-394-80	IC NJM2058M-TE2	
IC5501	8-759-926-23	IC SN74HC163ANS	
IC5602	8-759-011-65	IC MC74HC4053F	
IC5701	8-759-488-29	IC TC7W66FU(TE12R)	
IC5702	8-759-488-29	IC TC7W66FU(TE12R)	
IC5703	8-759-527-74	IC M24C02-MN6T	
IC5801	8-759-988-13	IC LM393PS	
		<JACK>	
J502	1-774-749-11	JACK BLOCK, PIN (SELECT OUT)	
J505	1-774-751-11	TERMINAL BLOCK, S (VIDEO 1 IN)	
J507	1-774-751-11	TERMINAL BLOCK, S (VIDEO 3 IN)	
J508	1-774-751-11	TERMINAL BLOCK, S (VIDEO 4 IN)	
		<COIL>	
L501	1-414-856-11	INDUCTOR 10µH	
L502	1-414-856-11	INDUCTOR 10µH	
L503	1-414-856-11	INDUCTOR 10µH	
L504	1-414-856-11	INDUCTOR 10µH	
L505	1-414-856-11	INDUCTOR 10µH	
L506	1-414-856-11	INDUCTOR 10µH	
L507	1-414-856-11	INDUCTOR 10µH	
L508	1-414-856-11	INDUCTOR 10µH	
L509	1-414-856-11	INDUCTOR 10µH	
L510	1-414-856-11	INDUCTOR 10µH	
L511	1-414-856-11	INDUCTOR 10µH	
L512	1-414-856-11	INDUCTOR 10µH	
L513	1-414-234-22	INDUCTOR CHIP 0µH	
L514	1-414-856-11	INDUCTOR 10µH	
L515	1-414-856-11	INDUCTOR 10µH	
L517	1-414-234-22	INDUCTOR CHIP 0µH	
L518	1-414-234-22	INDUCTOR CHIP 0µH	
L519	1-414-234-22	INDUCTOR CHIP 0µH	
L520	1-414-234-22	INDUCTOR CHIP 0µH	
L523	1-414-856-11	INDUCTOR 10µH	
L1001	1-414-234-22	INDUCTOR CHIP 0µH	
L1002	1-414-234-22	INDUCTOR CHIP 0µH	
L1004	1-414-754-11	INDUCTOR 10µH	
L1005	1-414-754-11	INDUCTOR 10µH	
L1006	1-414-754-11	INDUCTOR 10µH	
L1008	1-414-754-11	INDUCTOR 10µH	
L1009	1-414-234-22	INDUCTOR CHIP 0µH	
L1301	1-414-234-22	INDUCTOR CHIP 0µH	
L1302	1-414-234-22	INDUCTOR CHIP 0µH	
L1303	1-414-234-22	INDUCTOR CHIP 0µH	
L1304	1-414-234-22	INDUCTOR CHIP 0µH	
L1305	1-414-234-22	INDUCTOR CHIP 0µH	
L1306	1-414-234-22	INDUCTOR CHIP 0µH	
L1307	1-414-234-22	INDUCTOR CHIP 0µH	
L1308	1-414-234-22	INDUCTOR CHIP 0µH	
L1309	1-412-006-31	INDUCTOR CHIP 10µH	
L1310	1-414-234-22	INDUCTOR CHIP 0µH	
L1311	1-414-234-22	INDUCTOR CHIP 0µH	
L1313	1-412-006-31	INDUCTOR CHIP 10µH	
L1314	1-414-234-22	INDUCTOR CHIP 0µH	
L1315	1-414-234-22	INDUCTOR CHIP 0µH	
L1316	1-412-006-31	INDUCTOR CHIP 10µH	
L1317	1-412-006-31	INDUCTOR CHIP 10µH	
L1319	1-412-006-31	INDUCTOR CHIP 10µH	
L1320	1-412-006-31	INDUCTOR CHIP 10µH	
L1322	1-414-234-22	INDUCTOR CHIP 0µH	
L1323	1-414-234-22	INDUCTOR CHIP 0µH	
L1324	1-414-234-22	INDUCTOR CHIP 0µH	
L1325	1-412-006-31	INDUCTOR CHIP 10µH	
L1326	1-414-234-22	INDUCTOR CHIP 0µH	
L1328	1-412-006-31	INDUCTOR CHIP 10µH	
L1329	1-412-006-31	INDUCTOR CHIP 10µH	
L1330	1-412-006-31	INDUCTOR CHIP 10µH	
L1401	1-414-234-22	INDUCTOR CHIP 0µH	
L1402	1-414-234-22	INDUCTOR CHIP 0µH	
L1403	1-414-234-22	INDUCTOR CHIP 0µH	
L1404	1-414-234-22	INDUCTOR CHIP 0µH	
L1405	1-414-234-22	INDUCTOR CHIP 0µH	
L1406	1-414-234-22	INDUCTOR CHIP 0µH	
L1407	1-414-234-22	INDUCTOR CHIP 0µH	
L1408	1-414-234-22	INDUCTOR CHIP 0µH	
L1409	1-414-234-22	INDUCTOR CHIP 0µH	
L1410	1-414-234-22	INDUCTOR CHIP 0µH	
L1411	1-414-234-22	INDUCTOR CHIP 0µH	
L1412	1-414-234-22	INDUCTOR CHIP 0µH	
L1413	1-414-187-11	INDUCTOR 47µH	
L5601	1-414-234-22	INDUCTOR CHIP 0µH	
L5603	1-414-234-22	INDUCTOR CHIP 0µH	
		<TRANSISTOR>	
Q501	8-729-216-22	TRANSISTOR 2SA1162-G	
Q502	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q503	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q504	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q505	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q506	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q507	8-729-216-22	TRANSISTOR 2SA1162-G	
Q508	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q509	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q510	8-729-122-63	TRANSISTOR 2SA1226-E4	
Q511	8-729-216-22	TRANSISTOR 2SA1162-G	
Q512	8-729-216-22	TRANSISTOR 2SA1162-G	
Q513	8-729-216-22	TRANSISTOR 2SA1162-G	
Q514	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q515	8-729-216-22	TRANSISTOR 2SA1162-G	
Q516	8-729-122-63	TRANSISTOR 2SA1226-E4	
Q517	8-729-216-22	TRANSISTOR 2SA1162-G	
Q518	8-729-216-22	TRANSISTOR 2SA1162-G	
Q519	8-729-216-22	TRANSISTOR 2SA1162-G	
Q520	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q521	8-729-216-22	TRANSISTOR 2SA1162-G	
Q523	8-729-216-22	TRANSISTOR 2SA1162-G	
Q524	8-729-122-63	TRANSISTOR 2SA1226-E4	
Q525	8-729-422-27	TRANSISTOR 2SD601A-Q	

REF. NO.	PART NO.	DESCRIPTION	REMARK
Q526	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q527	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q528	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q530	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q531	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q532	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q533	8-729-216-22	TRANSISTOR 2SA1162-G	
Q535	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q536	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q537	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q538	8-729-216-22	TRANSISTOR 2SA1162-G	
Q539	8-729-216-22	TRANSISTOR 2SA1162-G	
Q540	8-729-216-22	TRANSISTOR 2SA1162-G	
Q542	8-729-216-22	TRANSISTOR 2SA1162-G	
Q543	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q544	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q545	1-801-806-11	TRANSISTOR DTC144EKA-T146	
Q546	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q547	8-729-216-22	TRANSISTOR 2SA1162-G	
Q548	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q560	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q561	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q562	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q563	8-729-216-22	TRANSISTOR 2SA1162-G	
Q564	8-729-216-22	TRANSISTOR 2SA1162-G	
Q1001	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q1002	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q1003	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q1004	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q1006	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q1008	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q1010	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q1011	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q1012	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q1015	1-801-806-11	TRANSISTOR DTC144EKA-T146	
Q1018	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q1020	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q1022	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q1301	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q1302	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q1303	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q1304	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q1305	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q1306	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q1307	8-729-216-22	TRANSISTOR 2SA1162-G	
Q1308	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q1309	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q1310	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q1311	8-729-216-22	TRANSISTOR 2SA1162-G	
Q1312	1-801-806-11	TRANSISTOR DTC144EKA-T146	
Q1313	8-729-216-22	TRANSISTOR 2SA1162-G	
Q1314	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q1315	8-729-216-22	TRANSISTOR 2SA1162-G	
Q1316	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q1317	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q1318	8-729-216-22	TRANSISTOR 2SA1162-G	
Q1319	8-729-216-22	TRANSISTOR 2SA1162-G	
Q1320	8-729-216-22	TRANSISTOR 2SA1162-G	
Q1321	8-729-216-22	TRANSISTOR 2SA1162-G	
Q1322	8-729-216-22	TRANSISTOR 2SA1162-G	
Q1323	8-729-216-22	TRANSISTOR 2SA1162-G	
Q1324	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q1325	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q1326	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q1327	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q1328	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q1329	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q1330	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q1331	8-729-216-22	TRANSISTOR 2SA1162-G	
Q1332	8-729-216-22	TRANSISTOR 2SA1162-G	
Q1333	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q1334	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q1335	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q1336	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q1337	8-729-216-22	TRANSISTOR 2SA1162-G	
Q1338	8-729-216-22	TRANSISTOR 2SA1162-G	
Q1339	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q1340	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q1341	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q1342	8-729-216-22	TRANSISTOR 2SA1162-G	
Q1343	8-729-216-22	TRANSISTOR 2SA1162-G	
Q1344	8-729-216-22	TRANSISTOR 2SA1162-G	
Q1345	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q1346	8-729-216-22	TRANSISTOR 2SA1162-G	
Q1347	8-729-216-22	TRANSISTOR 2SA1162-G	
Q1348	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q1349	8-729-216-22	TRANSISTOR 2SA1162-G	
Q1350	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q1352	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q1353	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q1354	8-729-216-22	TRANSISTOR 2SA1162-G	
Q1355	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q1356	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q1357	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q1358	8-729-216-22	TRANSISTOR 2SA1162-G	
Q1359	1-801-806-11	TRANSISTOR DTC144EKA-T146	
Q1366	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q1367	8-729-216-22	TRANSISTOR 2SA1162-G	
Q1601	1-801-806-11	TRANSISTOR DTC144EKA-T146	
Q1602	1-801-806-11	TRANSISTOR DTC144EKA-T146	
Q1603	1-801-806-11	TRANSISTOR DTC144EKA-T146	
Q1604	1-801-806-11	TRANSISTOR DTC144EKA-T146	
Q1605	1-801-806-11	TRANSISTOR DTC144EKA-T146	
Q1606	1-801-806-11	TRANSISTOR DTC144EKA-T146	
Q1607	1-801-806-11	TRANSISTOR DTC144EKA-T146	
Q1608	1-801-806-11	TRANSISTOR DTC144EKA-T146	
Q1609	8-729-044-82	TRANSISTOR 2SK306400LS0	
Q1610	8-729-044-82	TRANSISTOR 2SK306400LS0	
Q1611	8-729-044-82	TRANSISTOR 2SK306400LS0	
Q1612	8-729-044-82	TRANSISTOR 2SK306400LS0	
Q1613	8-729-044-82	TRANSISTOR 2SK306400LS0	
Q1614	8-729-044-82	TRANSISTOR 2SK306400LS0	
Q1615	8-729-044-82	TRANSISTOR 2SK306400LS0	

REF. NO.	PART NO.	DESCRIPTION	REMARK
Q1616	8-729-044-82	TRANSISTOR 2SK306400LS0	
Q1617	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q5501	1-801-806-11	TRANSISTOR DTC144EKA-T146	
Q5502	1-801-806-11	TRANSISTOR DTC144EKA-T146	
Q5503	1-801-806-11	TRANSISTOR DTC144EKA-T146	
Q5504	8-729-216-22	TRANSISTOR 2SA1162-G	
Q5505	8-729-216-22	TRANSISTOR 2SA1162-G	
Q5508	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q5509	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q5510	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q5511	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q5512	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q5513	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q5514	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q5515	1-801-806-11	TRANSISTOR DTC144EKA-T146	
Q5516	1-801-806-11	TRANSISTOR DTC144EKA-T146	
Q5517	1-801-806-11	TRANSISTOR DTC144EKA-T146	
Q5518	1-801-806-11	TRANSISTOR DTC144EKA-T146	
Q5602	8-729-027-38	TRANSISTOR DTA144EKA-T146	
Q5604	1-801-806-11	TRANSISTOR DTC144EKA-T146	
Q5605	1-801-806-11	TRANSISTOR DTC144EKA-T146	
Q5606	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q5607	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q5701	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q5702	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q5703	1-801-806-11	TRANSISTOR DTC144EKA-T146	
Q5705	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q5706	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q5707	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q5708	1-801-806-11	TRANSISTOR DTC144EKA-T146	
Q5801	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q5802	1-801-806-11	TRANSISTOR DTC144EKA-T146	

<RESISTOR>

REF. NO.	PART NO.	DESCRIPTION			REMARK
R501	1-216-073-00	RES,CHIP	10K	5%	1/10W
R502	1-216-073-00	RES,CHIP	10K	5%	1/10W
R503	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R504	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R505	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R506	1-216-025-91	RES,CHIP	100	5%	1/10W
R507	1-216-295-91	SHORT	0		
R508	1-249-393-11	CARBON	10	5%	1/4W F
R509	1-249-381-11	CARBON	1	5%	1/4W F
R510	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R511	1-216-295-91	SHORT	0		
R512	1-216-295-91	SHORT	0		
R513	1-216-295-91	SHORT	0		
R514	1-208-765-11	RES,CHIP	200	0.50%	1/10W
R515	1-249-381-11	CARBON	1	5%	1/4W F
R516	1-216-025-91	RES,CHIP	100	5%	1/10W
R517	1-216-101-00	RES,CHIP	150K	5%	1/10W
R518	1-216-295-91	SHORT	0		
R519	1-216-025-91	RES,CHIP	100	5%	1/10W
R520	1-216-077-00	RES,CHIP	15K	5%	1/10W
R521	1-216-049-91	RES,CHIP	1K	5%	1/10W
R523	1-208-765-11	RES,CHIP	200	0.50%	1/10W
R524	1-216-081-00	RES,CHIP	22K	5%	1/10W
R525	1-216-655-11	RES,CHIP	1.5K	0.50%	1/10W
R526	1-208-765-11	RES,CHIP	200	0.50%	1/10W
R527	1-216-085-00	RES,CHIP	33K	5%	1/10W
R528	1-216-059-00	RES,CHIP	2.7K	5%	1/10W
R529	1-216-105-91	RES,CHIP	220K	5%	1/10W
R530	1-208-780-11	RES,CHIP	820	0.50%	1/10W
R531	1-208-774-11	RES,CHIP	470	0.50%	1/10W
R532	1-216-049-91	RES,CHIP	1K	5%	1/10W
R533	1-216-368-11	METAL OXIDE	0.82	5%	2W F
R534	1-208-816-11	RES,CHIP	27K	0.50%	1/10W
R535	1-216-373-11	METAL OXIDE	2.2	5%	2W F
R536	1-208-782-11	RES,CHIP	1K	0.50%	1/10W
R537	1-208-818-11	RES,CHIP	33K	0.50%	1/10W
R538	1-216-083-00	RES,CHIP	27K	5%	1/10W
R539	1-216-689-11	RES,CHIP	39K	5%	1/10W
R540	1-208-808-11	RES,CHIP	12K	0.50%	1/10W
R541	1-208-817-11	RES,CHIP	30K	0.50%	1/10W
R542	1-216-043-91	RES,CHIP	560	5%	1/10W
R543	1-208-776-11	RES,CHIP	560	0.50%	1/10W
R544	1-216-045-00	RES,CHIP	680	5%	1/10W
R545	1-216-071-00	RES,CHIP	8.2K	5%	1/10W
R546	1-208-814-91	RES,CHIP	22K	0.50%	1/10W
R547	1-216-073-00	RES,CHIP	10K	5%	1/10W
R548	1-208-778-11	RES,CHIP	680	0.50%	1/10W
R549	1-208-782-11	RES,CHIP	1K	0.50%	1/10W
R550	1-208-806-11	RES,CHIP	10K	0.50%	1/10W
R551	1-216-097-91	RES,CHIP	100K	5%	1/10W
R552	1-216-081-00	RES,CHIP	22K	5%	1/10W
R553	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R554	1-208-776-11	RES,CHIP	560	0.50%	1/10W
R555	1-216-043-91	RES,CHIP	560	5%	1/10W
R556	1-216-121-91	RES,CHIP	1M	5%	1/10W
R557	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R558	1-216-073-00	RES,CHIP	10K	5%	1/10W
R559	1-216-073-00	RES,CHIP	10K	5%	1/10W
R560	1-208-778-11	RES,CHIP	680	0.50%	1/10W
R561	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R562	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R563	1-216-049-91	RES,CHIP	1K	5%	1/10W
R564	1-216-097-91	RES,CHIP	100K	5%	1/10W
R565	1-216-097-91	RES,CHIP	100K	5%	1/10W
R566	1-216-067-00	RES,CHIP	5.6K	5%	1/10W
R567	1-216-049-91	RES,CHIP	1K	5%	1/10W
R569	1-216-073-00	RES,CHIP	10K	5%	1/10W
R570	1-208-798-11	RES,CHIP	4.7K	0.50%	1/10W
R571	1-208-806-11	RES,CHIP	10K	0.50%	1/10W
R572	1-216-097-91	RES,CHIP	100K	5%	1/10W
R573	1-216-049-91	RES,CHIP	1K	5%	1/10W
R574	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R575	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R576	1-208-822-11	RES,CHIP	47K	0.50%	1/10W
R577	1-216-075-00	RES,CHIP	12K	5%	1/10W
R578	1-208-800-11	RES,CHIP	5.6K	0.50%	1/10W
R580	1-208-802-11	RES,CHIP	6.8K	0.50%	1/10W
R581	1-216-073-00	RES,CHIP	10K	5%	1/10W
R582	1-216-049-91	RES,CHIP	1K	5%	1/10W

REF. NO.	PART NO.	DESCRIPTION			REMARK
R583	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R584	1-216-097-91	RES,CHIP	100K	5%	1/10W
R585	1-216-097-91	RES,CHIP	100K	5%	1/10W
R586	1-216-049-91	RES,CHIP	1K	5%	1/10W
R587	1-216-295-91	SHORT	0		
R588	1-216-017-91	RES,CHIP	47	5%	1/10W
R589	1-216-049-91	RES,CHIP	1K	5%	1/10W
R590	1-208-806-11	RES,CHIP	10K	0.50%	1/10W
R591	1-208-806-11	RES,CHIP	10K	0.50%	1/10W
R592	1-216-025-91	RES,CHIP	100	5%	1/10W
R593	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R594	1-216-121-91	RES,CHIP	1M	5%	1/10W
R595	1-216-033-00	RES,CHIP	220	5%	1/10W
R596	1-216-049-91	RES,CHIP	1K	5%	1/10W
R597	1-216-025-91	RES,CHIP	100	5%	1/10W
R598	1-216-033-00	RES,CHIP	220	5%	1/10W
R599	1-216-105-91	RES,CHIP	220K	5%	1/10W
R601	1-216-081-00	RES,CHIP	22K	5%	1/10W
R602	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R603	1-216-073-00	RES,CHIP	10K	5%	1/10W
R604	1-216-073-00	RES,CHIP	10K	5%	1/10W
R605	1-216-049-91	RES,CHIP	1K	5%	1/10W
R606	1-216-373-11	METAL OXIDE	2.2	5%	2W F
R607	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R608	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R609	1-216-033-00	RES,CHIP	220	5%	1/10W
R610	1-216-025-91	RES,CHIP	100	5%	1/10W
R612	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R613	1-216-073-00	RES,CHIP	10K	5%	1/10W
R616	1-216-295-91	SHORT	0		
R617	1-216-017-91	RES,CHIP	47	5%	1/10W
R618	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R619	1-216-033-00	RES,CHIP	220	5%	1/10W
R620	1-216-049-91	RES,CHIP	1K	5%	1/10W
R621	1-216-025-91	RES,CHIP	100	5%	1/10W
R623	1-216-025-91	RES,CHIP	100	5%	1/10W
R624	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R625	1-216-025-91	RES,CHIP	100	5%	1/10W
R626	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R631	1-216-025-91	RES,CHIP	100	5%	1/10W
R632	1-216-025-91	RES,CHIP	100	5%	1/10W
R634	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R635	1-216-295-91	SHORT	0		
R636	1-216-133-00	RES,CHIP	3.3M	5%	1/10W
R637	1-216-025-91	RES,CHIP	100	5%	1/10W
R638	1-216-025-91	RES,CHIP	100	5%	1/10W
R639	1-216-025-91	RES,CHIP	100	5%	1/10W
R640	1-216-025-91	RES,CHIP	100	5%	1/10W
R642	1-216-025-91	RES,CHIP	100	5%	1/10W
R643	1-216-025-91	RES,CHIP	100	5%	1/10W
R644	1-216-025-91	RES,CHIP	100	5%	1/10W
R645	1-216-025-91	RES,CHIP	100	5%	1/10W
R646	1-216-025-91	RES,CHIP	100	5%	1/10W
R648	1-216-017-91	RES,CHIP	47	5%	1/10W
R652	1-216-025-91	RES,CHIP	100	5%	1/10W
R653	1-216-025-91	RES,CHIP	100	5%	1/10W

REF. NO.	PART NO.	DESCRIPTION			REMARK
R654	1-216-025-91	RES,CHIP	100	5%	1/10W
R655	1-216-025-91	RES,CHIP	100	5%	1/10W
R656	1-216-025-91	RES,CHIP	100	5%	1/10W
R657	1-216-083-00	RES,CHIP	27K	5%	1/10W
R658	1-216-689-11	RES,CHIP	39K	5%	1/10W
R659	1-216-025-91	RES,CHIP	100	5%	1/10W
R660	1-216-025-91	RES,CHIP	100	5%	1/10W
R661	1-216-061-00	RES,CHIP	3.3K	5%	1/10W
R662	1-216-025-91	RES,CHIP	100	5%	1/10W
R663	1-216-025-91	RES,CHIP	100	5%	1/10W
R664	1-208-776-11	RES,CHIP	560	0.50%	1/10W
R666	1-216-049-91	RES,CHIP	1K	5%	1/10W
R667	1-216-073-00	RES,CHIP	10K	5%	1/10W
R668	1-216-025-91	RES,CHIP	100	5%	1/10W
R669	1-208-814-91	RES,CHIP	22K	0.50%	1/10W
R670	1-216-069-00	RES,CHIP	6.8K	5%	1/10W
R672	1-216-049-91	RES,CHIP	1K	5%	1/10W
R673	1-216-025-91	RES,CHIP	100	5%	1/10W
R676	1-216-025-91	RES,CHIP	100	5%	1/10W
R677	1-216-025-91	RES,CHIP	100	5%	1/10W
R678	1-216-025-91	RES,CHIP	100	5%	1/10W
R679	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R680	1-216-025-91	RES,CHIP	100	5%	1/10W
R682	1-208-778-11	RES,CHIP	680	0.50%	1/10W
R685	1-216-025-91	RES,CHIP	100	5%	1/10W
R688	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R689	1-216-025-91	RES,CHIP	100	5%	1/10W
R690	1-216-025-91	RES,CHIP	100	5%	1/10W
R692	1-208-808-11	RES,CHIP	12K	0.50%	1/10W
R693	1-216-025-91	RES,CHIP	100	5%	1/10W
R694	1-216-051-00	RES,CHIP	1.2K	5%	1/10W
R695	1-216-025-91	RES,CHIP	100	5%	1/10W
R696	1-208-822-11	RES,CHIP	47K	0.50%	1/10W
R697	1-216-025-91	RES,CHIP	100	5%	1/10W
R699	1-208-790-11	RES,CHIP	2.2K	0.50%	1/10W
R700	1-216-043-91	RES,CHIP	560	5%	1/10W
R701	1-208-755-11	RES,CHIP	75	0.50%	1/10W
R703	1-216-295-91	SHORT	0		
R705	1-216-025-91	RES,CHIP	100	5%	1/10W
R707	1-208-798-11	RES,CHIP	4.7K	0.50%	1/10W
R709	1-216-091-00	RES,CHIP	56K	5%	1/10W
R710	1-216-025-91	RES,CHIP	100	5%	1/10W
R712	1-216-025-91	RES,CHIP	100	5%	1/10W
R713	1-216-025-91	RES,CHIP	100	5%	1/10W
R716	1-216-025-91	RES,CHIP	100	5%	1/10W
R717	1-216-051-00	RES,CHIP	1.2K	5%	1/10W
R720	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R721	1-216-025-91	RES,CHIP	100	5%	1/10W
R722	1-216-025-91	RES,CHIP	100	5%	1/10W
R726	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R727	1-216-051-00	RES,CHIP	1.2K	5%	1/10W
R729	1-216-295-91	SHORT	0		
R734	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R735	1-216-025-91	RES,CHIP	100	5%	1/10W
R736	1-216-025-91	RES,CHIP	100	5%	1/10W
R739	1-216-073-00	RES,CHIP	10K	5%	1/10W
R740	1-216-017-91	RES,CHIP	47	5%	1/10W

REF. NO.	PART NO.	DESCRIPTION			REMARK
R741	1-216-093-91	RES,CHIP	68K	5%	1/10W
R743	1-216-025-91	RES,CHIP	100	5%	1/10W
R744	1-216-025-91	RES,CHIP	100	5%	1/10W
R745	1-216-025-91	RES,CHIP	100	5%	1/10W
R746	1-216-025-91	RES,CHIP	100	5%	1/10W
R747	1-216-085-00	RES,CHIP	33K	5%	1/10W
R748	1-216-025-91	RES,CHIP	100	5%	1/10W
R749	1-216-025-91	RES,CHIP	100	5%	1/10W
R751	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R753	1-216-025-91	RES,CHIP	100	5%	1/10W
R754	1-216-025-91	RES,CHIP	100	5%	1/10W
R755	1-216-295-91	SHORT	0		
R756	1-216-045-00	RES,CHIP	680	5%	1/10W
R757	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R759	1-216-295-91	SHORT	0		
R760	1-216-295-91	SHORT	0		
R763	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R765	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R766	1-216-019-00	RES,CHIP	56	5%	1/10W
R768	1-216-095-00	RES,CHIP	82K	5%	1/10W
R772	1-216-025-91	RES,CHIP	100	5%	1/10W
R773	1-216-025-91	RES,CHIP	100	5%	1/10W
R774	1-216-025-91	RES,CHIP	100	5%	1/10W
R777	1-216-025-91	RES,CHIP	100	5%	1/10W
R779	1-208-818-11	RES,CHIP	33K	0.50%	1/10W
R780	1-216-025-91	RES,CHIP	100	5%	1/10W
R783	1-216-025-91	RES,CHIP	100	5%	1/10W
R784	1-216-067-00	RES,CHIP	5.6K	5%	1/10W
R787	1-216-025-91	RES,CHIP	100	5%	1/10W
R788	1-216-073-00	RES,CHIP	10K	5%	1/10W
R789	1-216-073-00	RES,CHIP	10K	5%	1/10W
R790	1-216-025-91	RES,CHIP	100	5%	1/10W
R791	1-216-067-00	RES,CHIP	5.6K	5%	1/10W
R794	1-216-067-00	RES,CHIP	5.6K	5%	1/10W
R795	1-216-025-91	RES,CHIP	100	5%	1/10W
R799	1-216-025-91	RES,CHIP	100	5%	1/10W
R800	1-216-025-91	RES,CHIP	100	5%	1/10W
R801	1-216-095-00	RES,CHIP	82K	5%	1/10W
R804	1-216-067-00	RES,CHIP	5.6K	5%	1/10W
R805	1-216-025-91	RES,CHIP	100	5%	1/10W
R808	1-216-067-00	RES,CHIP	5.6K	5%	1/10W
R809	1-216-067-00	RES,CHIP	5.6K	5%	1/10W
R812	1-216-025-91	RES,CHIP	100	5%	1/10W
R813	1-216-025-91	RES,CHIP	100	5%	1/10W
R814	1-216-067-00	RES,CHIP	5.6K	5%	1/10W
R815	1-216-067-00	RES,CHIP	5.6K	5%	1/10W
R816	1-216-295-91	SHORT	0		
R817	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R818	1-216-049-91	RES,CHIP	1K	5%	1/10W
R819	1-216-025-91	RES,CHIP	100	5%	1/10W
R820	1-216-067-00	RES,CHIP	5.6K	5%	1/10W
R821	1-216-025-91	RES,CHIP	100	5%	1/10W
R822	1-216-067-00	RES,CHIP	5.6K	5%	1/10W
R823	1-216-025-91	RES,CHIP	100	5%	1/10W
R824	1-216-025-91	RES,CHIP	100	5%	1/10W
R826	1-216-067-00	RES,CHIP	5.6K	5%	1/10W
R828	1-216-067-00	RES,CHIP	5.6K	5%	1/10W

REF. NO.	PART NO.	DESCRIPTION			REMARK
R830	1-216-025-91	RES,CHIP	100	5%	1/10W
R831	1-216-025-91	RES,CHIP	100	5%	1/10W
R832	1-216-067-00	RES,CHIP	5.6K	5%	1/10W
R833	1-216-025-91	RES,CHIP	100	5%	1/10W
R834	1-216-067-00	RES,CHIP	5.6K	5%	1/10W
R835	1-216-025-91	RES,CHIP	100	5%	1/10W
R836	1-216-025-91	RES,CHIP	100	5%	1/10W
R837	1-216-025-91	RES,CHIP	100	5%	1/10W
R840	1-216-095-00	RES,CHIP	82K	5%	1/10W
R841	1-216-081-00	RES,CHIP	22K	5%	1/10W
R843	1-216-095-00	RES,CHIP	82K	5%	1/10W
R852	1-216-113-00	RES,CHIP	470K	5%	1/10W
R853	1-216-041-00	RES,CHIP	470	5%	1/10W
R854	1-216-041-00	RES,CHIP	470	5%	1/10W
R855	1-216-113-00	RES,CHIP	470K	5%	1/10W
R856	1-216-049-91	RES,CHIP	1K	5%	1/10W
R857	1-216-089-91	RES,CHIP	47K	5%	1/10W
R858	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R859	1-216-033-00	RES,CHIP	220	5%	1/10W
R860	1-216-033-00	RES,CHIP	220	5%	1/10W
R861	1-216-033-00	RES,CHIP	220	5%	1/10W
R862	1-216-689-11	RES,CHIP	39K	5%	1/10W
R865	1-216-689-11	RES,CHIP	39K	5%	1/10W
R866	1-216-689-11	RES,CHIP	39K	5%	1/10W
R867	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R868	1-216-033-00	RES,CHIP	220	5%	1/10W
R869	1-216-033-00	RES,CHIP	220	5%	1/10W
R870	1-216-113-00	RES,CHIP	470K	5%	1/10W
R872	1-216-113-00	RES,CHIP	470K	5%	1/10W
R873	1-216-113-00	RES,CHIP	470K	5%	1/10W
R875	1-208-755-11	RES,CHIP	75	0.50%	1/10W
R876	1-208-755-11	RES,CHIP	75	0.50%	1/10W
R879	1-208-755-11	RES,CHIP	75	0.50%	1/10W
R880	1-208-755-11	RES,CHIP	75	0.50%	1/10W
R881	1-208-755-11	RES,CHIP	75	0.50%	1/10W
R882	1-208-755-11	RES,CHIP	75	0.50%	1/10W
R883	1-208-755-11	RES,CHIP	75	0.50%	1/10W
R884	1-208-755-11	RES,CHIP	75	0.50%	1/10W
R885	1-208-755-11	RES,CHIP	75	0.50%	1/10W
R886	1-216-113-00	RES,CHIP	470K	5%	1/10W
R887	1-216-033-00	RES,CHIP	220	5%	1/10W
R891	1-208-755-11	RES,CHIP	75	0.50%	1/10W
R892	1-216-113-00	RES,CHIP	470K	5%	1/10W
R895	1-208-755-11	RES,CHIP	75	0.50%	1/10W
R896	1-216-113-00	RES,CHIP	470K	5%	1/10W
R897	1-208-755-11	RES,CHIP	75	0.50%	1/10W
R898	1-216-113-00	RES,CHIP	470K	5%	1/10W
R899	1-216-033-00	RES,CHIP	220	5%	1/10W
R901	1-216-033-00	RES,CHIP	220	5%	1/10W
R903	1-216-009-91	RES,CHIP	22	5%	1/10W
R904	1-216-009-91	RES,CHIP	22	5%	1/10W
R906	1-216-073-00	RES,CHIP	10K	5%	1/10W
R911	1-216-025-91	RES,CHIP	100	5%	1/10W
R912	1-216-025-91	RES,CHIP	100	5%	1/10W
R913	1-216-025-91	RES,CHIP	100	5%	1/10W
R914	1-216-025-91	RES,CHIP	100	5%	1/10W

REF. NO.	PART NO.	DESCRIPTION			REMARK
R1001	1-208-790-11	RES,CHIP	2.2K	0.50%	1/10W
R1002	1-208-790-11	RES,CHIP	2.2K	0.50%	1/10W
R1003	1-208-790-11	RES,CHIP	2.2K	0.50%	1/10W
R1004	1-208-790-11	RES,CHIP	2.2K	0.50%	1/10W
R1005	1-208-790-11	RES,CHIP	2.2K	0.50%	1/10W
R1006	1-216-033-00	RES,CHIP	220	5%	1/10W
R1007	1-208-784-11	RES,CHIP	1.2K	0.50%	1/10W
R1008	1-208-766-11	RES,CHIP	220	0.50%	1/10W
R1009	1-216-033-00	RES,CHIP	220	5%	1/10W
R1010	1-208-784-11	RES,CHIP	1.2K	0.50%	1/10W
R1011	1-208-766-11	RES,CHIP	220	0.50%	1/10W
R1012	1-208-790-11	RES,CHIP	2.2K	0.50%	1/10W
R1013	1-216-053-00	RES,CHIP	1.5K	5%	1/10W
R1014	1-216-025-91	RES,CHIP	100	5%	1/10W
R1015	1-216-025-91	RES,CHIP	100	5%	1/10W
R1016	1-216-025-91	RES,CHIP	100	5%	1/10W
R1017	1-216-025-91	RES,CHIP	100	5%	1/10W
R1018	1-216-025-91	RES,CHIP	100	5%	1/10W
R1019	1-216-025-91	RES,CHIP	100	5%	1/10W
R1020	1-216-025-91	RES,CHIP	100	5%	1/10W
R1021	1-216-033-00	RES,CHIP	220	5%	1/10W
R1022	1-208-784-11	RES,CHIP	1.2K	0.50%	1/10W
R1023	1-208-766-11	RES,CHIP	220	0.50%	1/10W
R1024	1-216-081-00	RES,CHIP	22K	5%	1/10W
R1025	1-216-025-91	RES,CHIP	100	5%	1/10W
R1026	1-208-814-91	RES,CHIP	22K	0.50%	1/10W
R1027	1-216-025-91	RES,CHIP	100	5%	1/10W
R1028	1-208-814-91	RES,CHIP	22K	0.50%	1/10W
R1029	1-216-025-91	RES,CHIP	100	5%	1/10W
R1030	1-208-790-11	RES,CHIP	2.2K	0.50%	1/10W
R1031	1-216-025-91	RES,CHIP	100	5%	1/10W
R1032	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1033	1-216-025-91	RES,CHIP	100	5%	1/10W
R1034	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R1035	1-216-025-91	RES,CHIP	100	5%	1/10W
R1036	1-216-009-91	RES,CHIP	22	5%	1/10W
R1037	1-208-770-11	RES,CHIP	330	0.50%	1/10W
R1038	1-216-025-91	RES,CHIP	100	5%	1/10W
R1039	1-216-025-91	RES,CHIP	100	5%	1/10W
R1040	1-216-025-91	RES,CHIP	100	5%	1/10W
R1041	1-216-295-91	SHORT	0		
R1043	1-216-025-91	RES,CHIP	100	5%	1/10W
R1044	1-208-790-11	RES,CHIP	2.2K	0.50%	1/10W
R1045	1-216-033-00	RES,CHIP	220	5%	1/10W
R1046	1-216-073-00	RES,CHIP	10K	5%	1/10W
R1049	1-216-089-91	RES,CHIP	47K	5%	1/10W
R1050	1-216-061-00	RES,CHIP	3.3K	5%	1/10W
R1051	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1062	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R1063	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R1064	1-216-089-91	RES,CHIP	47K	5%	1/10W
R1065	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1066	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1067	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1071	1-216-073-00	RES,CHIP	10K	5%	1/10W
R1073	1-216-033-00	RES,CHIP	220	5%	1/10W
R1074	1-216-033-00	RES,CHIP	220	5%	1/10W

REF. NO.	PART NO.	DESCRIPTION			REMARK
R1075	1-216-033-00	RES,CHIP	220	5%	1/10W
R1076	1-216-033-00	RES,CHIP	220	5%	1/10W
R1077	1-216-033-00	RES,CHIP	220	5%	1/10W
R1078	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1079	1-216-033-00	RES,CHIP	220	5%	1/10W
R1081	1-216-029-00	RES,CHIP	150	5%	1/10W
R1082	1-216-029-00	RES,CHIP	150	5%	1/10W
R1083	1-216-089-91	RES,CHIP	47K	5%	1/10W
R1084	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R1086	1-216-073-00	RES,CHIP	10K	5%	1/10W
R1087	1-216-025-91	RES,CHIP	100	5%	1/10W
R1088	1-216-073-00	RES,CHIP	10K	5%	1/10W
R1089	1-216-025-91	RES,CHIP	100	5%	1/10W
R1090	1-208-798-11	RES,CHIP	4.7K	0.50%	1/10W
R1091	1-216-025-91	RES,CHIP	100	5%	1/10W
R1092	1-216-073-00	RES,CHIP	10K	5%	1/10W
R1094	1-216-033-00	RES,CHIP	220	5%	1/10W
R1095	1-216-033-00	RES,CHIP	220	5%	1/10W
R1096	1-216-073-00	RES,CHIP	10K	5%	1/10W
R1097	1-216-033-00	RES,CHIP	220	5%	1/10W
R1098	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1099	1-216-033-00	RES,CHIP	220	5%	1/10W
R1100	1-216-033-00	RES,CHIP	220	5%	1/10W
R1101	1-216-025-91	RES,CHIP	100	5%	1/10W
R1102	1-216-033-00	RES,CHIP	220	5%	1/10W
R1103	1-216-033-00	RES,CHIP	220	5%	1/10W
R1104	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1105	1-216-033-00	RES,CHIP	220	5%	1/10W
R1106	1-216-033-00	RES,CHIP	220	5%	1/10W
R1107	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1108	1-216-025-91	RES,CHIP	100	5%	1/10W
R1109	1-216-295-91	SHORT	0		
R1110	1-216-033-00	RES,CHIP	220	5%	1/10W
R1111	1-216-033-00	RES,CHIP	220	5%	1/10W
R1112	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R1113	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1114	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1115	1-216-033-00	RES,CHIP	220	5%	1/10W
R1116	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1117	1-216-041-00	RES,CHIP	470	5%	1/10W
R1118	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1119	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1120	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1121	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1122	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R1123	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1124	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1126	1-216-025-91	RES,CHIP	100	5%	1/10W
R1127	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1129	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1130	1-216-033-00	RES,CHIP	220	5%	1/10W
R1131	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1132	1-216-033-00	RES,CHIP	220	5%	1/10W
R1133	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1134	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1135	1-216-033-00	RES,CHIP	220	5%	1/10W
R1137	1-216-049-91	RES,CHIP	1K	5%	1/10W

REF. NO.	PART NO.	DESCRIPTION			REMARK
R1138	1-216-033-00	RES,CHIP	220	5%	1/10W
R1139	1-216-033-00	RES,CHIP	220	5%	1/10W
R1140	1-216-033-00	RES,CHIP	220	5%	1/10W
R1141	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1142	1-216-033-00	RES,CHIP	220	5%	1/10W
R1143	1-216-033-00	RES,CHIP	220	5%	1/10W
R1144	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R1145	1-216-033-00	RES,CHIP	220	5%	1/10W
R1146	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1147	1-216-025-91	RES,CHIP	100	5%	1/10W
R1148	1-216-033-00	RES,CHIP	220	5%	1/10W
R1149	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1150	1-216-025-91	RES,CHIP	100	5%	1/10W
R1151	1-216-033-00	RES,CHIP	220	5%	1/10W
R1152	1-216-025-91	RES,CHIP	100	5%	1/10W
R1155	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1156	1-216-033-00	RES,CHIP	220	5%	1/10W
R1157	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1158	1-216-033-00	RES,CHIP	220	5%	1/10W
R1159	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1160	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1161	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1162	1-216-025-91	RES,CHIP	100	5%	1/10W
R1163	1-216-025-91	RES,CHIP	100	5%	1/10W
R1164	1-216-033-00	RES,CHIP	220	5%	1/10W
R1165	1-216-033-00	RES,CHIP	220	5%	1/10W
R1166	1-216-019-00	RES,CHIP	56	5%	1/10W
R1167	1-216-121-91	RES,CHIP	1M	5%	1/10W
R1168	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1169	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1171	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1172	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1175	1-208-788-11	RES,CHIP	1.8K	0.50%	1/10W
R1178	1-208-766-11	RES,CHIP	220	0.50%	1/10W
R1180	1-208-788-11	RES,CHIP	1.8K	0.50%	1/10W
R1183	1-208-766-11	RES,CHIP	220	0.50%	1/10W
R1185	1-208-788-11	RES,CHIP	1.8K	0.50%	1/10W
R1188	1-208-766-11	RES,CHIP	220	0.50%	1/10W
R1301	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R1302	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R1303	1-208-788-11	RES,CHIP	1.8K	0.50%	1/10W
R1305	1-208-788-11	RES,CHIP	1.8K	0.50%	1/10W
R1306	1-208-788-11	RES,CHIP	1.8K	0.50%	1/10W
R1307	1-208-766-11	RES,CHIP	220	0.50%	1/10W
R1308	1-216-025-91	RES,CHIP	100	5%	1/10W
R1309	1-216-025-91	RES,CHIP	100	5%	1/10W
R1310	1-216-295-91	SHORT	0		
R1311	1-216-025-91	RES,CHIP	100	5%	1/10W
R1312	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R1313	1-208-766-11	RES,CHIP	220	0.50%	1/10W
R1314	1-208-766-11	RES,CHIP	220	0.50%	1/10W
R1315	1-216-025-91	RES,CHIP	100	5%	1/10W
R1316	1-216-025-91	RES,CHIP	100	5%	1/10W
R1317	1-216-081-00	RES,CHIP	22K	5%	1/10W
R1318	1-216-061-00	RES,CHIP	3.3K	5%	1/10W
R1319	1-216-057-00	RES,CHIP	2.2K	5%	1/10W

REF. NO.	PART NO.	DESCRIPTION			REMARK
R1320	1-216-025-91	RES,CHIP	100	5%	1/10W
R1321	1-216-025-91	RES,CHIP	100	5%	1/10W
R1322	1-216-025-91	RES,CHIP	100	5%	1/10W
R1323	1-216-031-00	RES,CHIP	180	5%	1/10W
R1324	1-216-081-00	RES,CHIP	22K	5%	1/10W
R1325	1-216-111-00	RES,CHIP	390K	5%	1/10W
R1326	1-216-025-91	RES,CHIP	100	5%	1/10W
R1327	1-216-061-00	RES,CHIP	3.3K	5%	1/10W
R1328	1-216-025-91	RES,CHIP	100	5%	1/10W
R1329	1-208-790-11	RES,CHIP	2.2K	0.50%	1/10W
R1330	1-216-025-91	RES,CHIP	100	5%	1/10W
R1331	1-216-025-91	RES,CHIP	100	5%	1/10W
R1332	1-216-025-91	RES,CHIP	100	5%	1/10W
R1333	1-216-043-91	RES,CHIP	560	5%	1/10W
R1334	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1335	1-208-768-11	RES,CHIP	270	0.50%	1/10W
R1337	1-208-770-11	RES,CHIP	330	0.50%	1/10W
R1338	1-208-790-11	RES,CHIP	2.2K	0.50%	1/10W
R1339	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R1340	1-216-081-00	RES,CHIP	22K	5%	1/10W
R1341	1-216-025-91	RES,CHIP	100	5%	1/10W
R1342	1-216-071-00	RES,CHIP	8.2K	5%	1/10W
R1343	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R1345	1-216-077-00	RES,CHIP	15K	5%	1/10W
R1346	1-216-081-00	RES,CHIP	22K	5%	1/10W
R1347	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R1348	1-216-073-00	RES,CHIP	10K	5%	1/10W
R1349	1-216-053-00	RES,CHIP	1.5K	5%	1/10W
R1350	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R1351	1-216-081-00	RES,CHIP	22K	5%	1/10W
R1352	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R1353	1-216-081-00	RES,CHIP	22K	5%	1/10W
R1354	1-216-025-91	RES,CHIP	100	5%	1/10W
R1355	1-216-025-91	RES,CHIP	100	5%	1/10W
R1356	1-216-025-91	RES,CHIP	100	5%	1/10W
R1357	1-216-025-91	RES,CHIP	100	5%	1/10W
R1358	1-208-822-11	RES,CHIP	47K	0.50%	1/10W
R1359	1-216-295-91	SHORT	0		
R1360	1-216-295-91	SHORT	0		
R1361	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R1362	1-216-295-91	SHORT	0		
R1363	1-216-025-91	RES,CHIP	100	5%	1/10W
R1364	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R1365	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R1366	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R1367	1-216-295-91	SHORT	0		
R1368	1-208-788-11	RES,CHIP	1.8K	0.50%	1/10W
R1369	1-216-025-91	RES,CHIP	100	5%	1/10W
R1371	1-216-655-11	RES,CHIP	1.5K	0.50%	1/10W
R1372	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R1374	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R1375	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R1377	1-208-790-11	RES,CHIP	2.2K	0.50%	1/10W
R1379	1-216-655-11	RES,CHIP	1.5K	0.50%	1/10W
R1380	1-216-655-11	RES,CHIP	1.5K	0.50%	1/10W
R1381	1-208-790-11	RES,CHIP	2.2K	0.50%	1/10W
R1382	1-216-295-91	SHORT	0		

REF. NO.	PART NO.	DESCRIPTION			REMARK
R1383	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R1384	1-216-295-91	SHORT	0		
R1385	1-216-295-91	SHORT	0		
R1389	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1390	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R1391	1-216-021-00	RES,CHIP	68	5%	1/10W
R1392	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1393	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R1394	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1395	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1396	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R1397	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1398	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R1400	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R1401	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R1402	1-216-061-00	RES,CHIP	3.3K	5%	1/10W
R1404	1-208-822-11	RES,CHIP	47K	0.50%	1/10W
R1405	1-216-031-00	RES,CHIP	180	5%	1/10W
R1406	1-216-025-91	RES,CHIP	100	5%	1/10W
R1407	1-216-061-00	RES,CHIP	3.3K	5%	1/10W
R1408	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R1410	1-216-025-91	RES,CHIP	100	5%	1/10W
R1411	1-216-025-91	RES,CHIP	100	5%	1/10W
R1412	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1413	1-216-071-00	RES,CHIP	8.2K	5%	1/10W
R1414	1-208-774-11	RES,CHIP	470	0.50%	1/10W
R1415	1-208-782-11	RES,CHIP	1K	0.50%	1/10W
R1416	1-216-655-11	RES,CHIP	1.5K	0.50%	1/10W
R1417	1-216-025-91	RES,CHIP	100	5%	1/10W
R1418	1-216-025-91	RES,CHIP	100	5%	1/10W
R1419	1-216-025-91	RES,CHIP	100	5%	1/10W
R1420	1-216-025-91	RES,CHIP	100	5%	1/10W
R1421	1-216-025-91	RES,CHIP	100	5%	1/10W
R1422	1-216-025-91	RES,CHIP	100	5%	1/10W
R1423	1-216-025-91	RES,CHIP	100	5%	1/10W
R1424	1-216-025-91	RES,CHIP	100	5%	1/10W
R1425	1-216-025-91	RES,CHIP	100	5%	1/10W
R1426	1-216-025-91	RES,CHIP	100	5%	1/10W
R1427	1-216-295-91	SHORT	0		
R1428	1-208-774-11	RES,CHIP	470	0.50%	1/10W
R1429	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R1430	1-216-295-91	SHORT	0		
R1431	1-216-033-00	RES,CHIP	220	5%	1/10W
R1432	1-216-025-91	RES,CHIP	100	5%	1/10W
R1433	1-216-111-00	RES,CHIP	390K	5%	1/10W
R1434	1-208-758-11	RES,CHIP	100	0.50%	1/10W
R1435	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R1436	1-216-105-91	RES,CHIP	220K	5%	1/10W
R1437	1-216-025-91	RES,CHIP	100	5%	1/10W
R1438	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R1439	1-208-800-11	RES,CHIP	5.6K	0.50%	1/10W
R1440	1-208-776-11	RES,CHIP	560	0.50%	1/10W
R1441	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1442	1-216-041-00	RES,CHIP	470	5%	1/10W
R1443	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R1445	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R1446	1-216-033-00	RES,CHIP	220	5%	1/10W
R1447	1-216-025-91	RES,CHIP	100	5%	1/10W
R1448	1-216-033-00	RES,CHIP	220	5%	1/10W
R1449	1-216-071-00	RES,CHIP	8.2K	5%	1/10W
R1450	1-216-077-00	RES,CHIP	15K	5%	1/10W
R1451	1-216-073-00	RES,CHIP	10K	5%	1/10W
R1452	1-216-053-00	RES,CHIP	1.5K	5%	1/10W
R1453	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R1454	1-208-774-11	RES,CHIP	470	0.50%	1/10W
R1455	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1457	1-208-774-11	RES,CHIP	470	0.50%	1/10W
R1458	1-216-025-91	RES,CHIP	100	5%	1/10W
R1459	1-216-039-00	RES,CHIP	390	5%	1/10W
R1460	1-208-800-11	RES,CHIP	5.6K	0.50%	1/10W
R1461	1-208-776-11	RES,CHIP	560	0.50%	1/10W
R1462	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1463	1-216-025-91	RES,CHIP	100	5%	1/10W
R1464	1-216-025-91	RES,CHIP	100	5%	1/10W
R1465	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1466	1-208-800-11	RES,CHIP	5.6K	0.50%	1/10W
R1467	1-208-790-11	RES,CHIP	2.2K	0.50%	1/10W
R1468	1-216-085-00	RES,CHIP	33K	5%	1/10W
R1470	1-208-790-11	RES,CHIP	2.2K	0.50%	1/10W
R1472	1-208-790-11	RES,CHIP	2.2K	0.50%	1/10W
R1473	1-216-655-11	RES,CHIP	1.5K	0.50%	1/10W
R1474	1-208-776-11	RES,CHIP	560	0.50%	1/10W
R1475	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R1476	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1477	1-216-025-91	RES,CHIP	100	5%	1/10W
R1478	1-216-655-11	RES,CHIP	1.5K	0.50%	1/10W
R1479	1-208-784-11	RES,CHIP	1.2K	0.50%	1/10W
R1481	1-216-047-91	RES,CHIP	820	5%	1/10W
R1482	1-216-075-00	RES,CHIP	12K	5%	1/10W
R1484	1-216-655-11	RES,CHIP	1.5K	0.50%	1/10W
R1485	1-216-025-91	RES,CHIP	100	5%	1/10W
R1486	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1487	1-208-800-11	RES,CHIP	5.6K	0.50%	1/10W
R1488	1-208-784-11	RES,CHIP	1.2K	0.50%	1/10W
R1489	1-216-085-00	RES,CHIP	33K	5%	1/10W
R1490	1-216-025-91	RES,CHIP	100	5%	1/10W
R1492	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R1493	1-216-025-91	RES,CHIP	100	5%	1/10W
R1494	1-216-025-91	RES,CHIP	100	5%	1/10W
R1495	1-208-776-11	RES,CHIP	560	0.50%	1/10W
R1496	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1497	1-216-017-91	RES,CHIP	47	5%	1/10W
R1499	1-216-295-91	SHORT	0		
R1500	1-208-778-11	RES,CHIP	680	0.50%	1/10W
R1501	1-216-047-91	RES,CHIP	820	5%	1/10W
R1502	1-216-075-00	RES,CHIP	12K	5%	1/10W
R1503	1-216-025-91	RES,CHIP	100	5%	1/10W
R1504	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R1509	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1511	1-216-295-91	SHORT	0		
R1517	1-216-295-91	SHORT	0		
R1518	1-216-295-91	SHORT	0		
R1521	1-216-049-91	RES,CHIP	1K	5%	1/10W

REF. NO.	PART NO.	DESCRIPTION			REMARK
R1527	1-216-025-91	RES,CHIP	100	5%	1/10W
R1528	1-216-025-91	RES,CHIP	100	5%	1/10W
R1529	1-216-025-91	RES,CHIP	100	5%	1/10W
R1530	1-216-025-91	RES,CHIP	100	5%	1/10W
R1536	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1537	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1538	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R1540	1-216-655-11	RES,CHIP	1.5K	0.50%	1/10W
R1543	1-216-295-91	SHORT	0		
R1544	1-208-822-11	RES,CHIP	47K	0.50%	1/10W
R1545	1-208-810-11	RES,CHIP	15K	0.50%	1/10W
R1546	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R1601	1-216-125-00	RES,CHIP	1.5M	5%	1/10W
R1602	1-216-115-00	RES,CHIP	560K	5%	1/10W
R1603	1-216-295-91	SHORT	0		
R1605	1-216-125-00	RES,CHIP	1.5M	5%	1/10W
R1607	1-216-125-00	RES,CHIP	1.5M	5%	1/10W
R1609	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1611	1-216-125-00	RES,CHIP	1.5M	5%	1/10W
R1612	1-216-115-00	RES,CHIP	560K	5%	1/10W
R1613	1-216-025-91	RES,CHIP	100	5%	1/10W
R1614	1-216-125-00	RES,CHIP	1.5M	5%	1/10W
R1617	1-216-125-00	RES,CHIP	1.5M	5%	1/10W
R1619	1-216-025-91	RES,CHIP	100	5%	1/10W
R1620	1-216-025-91	RES,CHIP	100	5%	1/10W
R1621	1-216-025-91	RES,CHIP	100	5%	1/10W
R1622	1-216-025-91	RES,CHIP	100	5%	1/10W
R1623	1-216-025-91	RES,CHIP	100	5%	1/10W
R1624	1-216-025-91	RES,CHIP	100	5%	1/10W
R1625	1-216-025-91	RES,CHIP	100	5%	1/10W
R1627	1-208-814-91	RES,CHIP	22K	0.50%	1/10W
R1628	1-208-814-91	RES,CHIP	22K	0.50%	1/10W
R1629	1-208-814-91	RES,CHIP	22K	0.50%	1/10W
R1630	1-208-814-91	RES,CHIP	22K	0.50%	1/10W
R1631	1-208-814-91	RES,CHIP	22K	0.50%	1/10W
R1632	1-208-814-91	RES,CHIP	22K	0.50%	1/10W
R1633	1-208-814-91	RES,CHIP	22K	0.50%	1/10W
R1634	1-208-814-91	RES,CHIP	22K	0.50%	1/10W
R1640	1-208-758-11	RES,CHIP	100	0.50%	1/10W
R1641	1-208-806-11	RES,CHIP	10K	0.50%	1/10W
R1642	1-216-025-91	RES,CHIP	100	5%	1/10W
R1647	1-216-025-91	RES,CHIP	100	5%	1/10W
R1650	1-216-025-91	RES,CHIP	100	5%	1/10W
R1653	1-216-025-91	RES,CHIP	100	5%	1/10W
R1654	1-216-025-91	RES,CHIP	100	5%	1/10W
R1658	1-216-025-91	RES,CHIP	100	5%	1/10W
R1663	1-216-025-91	RES,CHIP	100	5%	1/10W
R1666	1-216-025-91	RES,CHIP	100	5%	1/10W
R1668	1-216-025-91	RES,CHIP	100	5%	1/10W
R1669	1-216-025-91	RES,CHIP	100	5%	1/10W
R1670	1-216-025-91	RES,CHIP	100	5%	1/10W
R1671	1-216-025-91	RES,CHIP	100	5%	1/10W
R1672	1-216-025-91	RES,CHIP	100	5%	1/10W
R1673	1-216-025-91	RES,CHIP	100	5%	1/10W
R1674	1-216-025-91	RES,CHIP	100	5%	1/10W
R1675	1-216-025-91	RES,CHIP	100	5%	1/10W
R5501	1-216-065-91	RES,CHIP	4.7K	5%	1/10W

REF. NO.	PART NO.	DESCRIPTION			REMARK
R5503	1-208-818-11	RES,CHIP	33K	0.50%	1/10W
R5504	1-216-073-00	RES,CHIP	10K	5%	1/10W
R5505	1-216-081-00	RES,CHIP	22K	5%	1/10W
R5508	1-216-025-91	RES,CHIP	100	5%	1/10W
R5509	1-216-025-91	RES,CHIP	100	5%	1/10W
R5513	1-216-025-91	RES,CHIP	100	5%	1/10W
R5514	1-216-025-91	RES,CHIP	100	5%	1/10W
R5516	1-216-025-91	RES,CHIP	100	5%	1/10W
R5517	1-216-061-00	RES,CHIP	3.3K	5%	1/10W
R5518	1-208-782-11	RES,CHIP	1K	0.50%	1/10W
R5519	1-208-798-11	RES,CHIP	4.7K	0.50%	1/10W
R5520	1-208-817-11	RES,CHIP	30K	0.50%	1/10W
R5521	1-208-800-11	RES,CHIP	5.6K	0.50%	1/10W
R5524	1-216-097-91	RES,CHIP	100K	5%	1/10W
R5525	1-216-689-11	RES,CHIP	39K	5%	1/10W
R5526	1-216-097-91	RES,CHIP	100K	5%	1/10W
R5527	1-216-689-11	RES,CHIP	39K	5%	1/10W
R5528	1-216-097-91	RES,CHIP	100K	5%	1/10W
R5529	1-216-689-11	RES,CHIP	39K	5%	1/10W
R5532	1-216-025-91	RES,CHIP	100	5%	1/10W
R5533	1-216-025-91	RES,CHIP	100	5%	1/10W
R5535	1-216-025-91	RES,CHIP	100	5%	1/10W
R5536	1-216-025-91	RES,CHIP	100	5%	1/10W
R5537	1-216-025-91	RES,CHIP	100	5%	1/10W
R5538	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R5539	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R5540	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R5541	1-216-113-00	RES,CHIP	470K	5%	1/10W
R5542	1-208-797-11	RES,CHIP	4.3K	0.50%	1/10W
R5543	1-249-405-11	CARBON	100	5%	1/4W F
R5544	1-216-295-91	SHORT	0		
R5546	1-216-025-91	RES,CHIP	100	5%	1/10W
R5547	1-216-025-91	RES,CHIP	100	5%	1/10W
R5548	1-216-025-91	RES,CHIP	100	5%	1/10W
R5549	1-216-025-91	RES,CHIP	100	5%	1/10W
R5550	1-216-025-91	RES,CHIP	100	5%	1/10W
R5551	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R5552	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R5553	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R5554	1-216-049-91	RES,CHIP	1K	5%	1/10W
R5555	1-216-025-91	RES,CHIP	100	5%	1/10W
R5556	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R5557	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R5558	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R5559	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R5560	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R5561	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R5601	1-216-089-91	RES,CHIP	47K	5%	1/10W
R5602	1-216-081-00	RES,CHIP	22K	5%	1/10W
R5603	1-216-081-00	RES,CHIP	22K	5%	1/10W
R5604	1-208-798-11	RES,CHIP	4.7K	0.50%	1/10W
R5605	1-208-770-11	RES,CHIP	330	0.50%	1/10W
R5607	1-216-081-00	RES,CHIP	22K	5%	1/10W
R5608	1-216-081-00	RES,CHIP	22K	5%	1/10W
R5619	1-216-089-91	RES,CHIP	47K	5%	1/10W
R5701	1-216-033-00	RES,CHIP	220	5%	1/10W
R5702	1-216-033-00	RES,CHIP	220	5%	1/10W

Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

REF. NO.	PART NO.	DESCRIPTION			REMARK
R5703	1-216-033-00	RES,CHIP	220	5%	1/10W
R5704	1-216-033-00	RES,CHIP	220	5%	1/10W
R5705	1-216-033-00	RES,CHIP	220	5%	1/10W
R5707	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R5708	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R5709	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R5710	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R5711	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R5712	1-216-033-00	RES,CHIP	220	5%	1/10W
R5713	1-216-033-00	RES,CHIP	220	5%	1/10W
R5714	1-216-033-00	RES,CHIP	220	5%	1/10W
R5715	1-216-033-00	RES,CHIP	220	5%	1/10W
R5716	1-216-033-00	RES,CHIP	220	5%	1/10W
R5717	1-216-025-91	RES,CHIP	100	5%	1/10W
R5718	1-216-089-91	RES,CHIP	47K	5%	1/10W
R5719	1-216-069-00	RES,CHIP	6.8K	5%	1/10W
R5720	1-216-073-00	RES,CHIP	10K	5%	1/10W
R5721	1-216-033-00	RES,CHIP	220	5%	1/10W
R5722	1-216-073-00	RES,CHIP	10K	5%	1/10W
R5723	1-216-025-91	RES,CHIP	100	5%	1/10W
R5724	1-216-089-91	RES,CHIP	47K	5%	1/10W
R5725	1-216-025-91	RES,CHIP	100	5%	1/10W
R5726	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R5727	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R5728	1-216-025-91	RES,CHIP	100	5%	1/10W
R5729	1-216-025-91	RES,CHIP	100	5%	1/10W
R5730	1-216-025-91	RES,CHIP	100	5%	1/10W
R5731	1-216-025-91	RES,CHIP	100	5%	1/10W
R5732	1-216-025-91	RES,CHIP	100	5%	1/10W
R5801	1-216-073-00	RES,CHIP	10K	5%	1/10W
R5802	1-208-819-11	RES,CHIP	36K	0.50%	1/10W
R5803	1-208-810-11	RES,CHIP	15K	0.50%	1/10W
R5804	1-216-073-00	RES,CHIP	10K	5%	1/10W
R5805	1-216-073-00	RES,CHIP	10K	5%	1/10W
R5806	1-208-818-11	RES,CHIP	33K	0.50%	1/10W
R5807	1-208-819-11	RES,CHIP	36K	0.50%	1/10W

<TUNER>

TU501	8-598-431-00	TUNER, FSS	BTF-WA411
TU502	8-598-431-00	TUNER, FSS	BTF-WA411

<CRYSTAL>

X1001	1-767-925-21	VIBRATOR, CRYSTAL
X1002	1-579-125-11	VIBRATOR,CERAMIC
X1301	1-577-611-11	OSCILALTOR,CERAMIC
X1302	1-567-505-11	OSCILLATOR, CRYSTAL
X1303	1-577-611-11	OSCILALTOR,CERAMIC
X1305	1-567-505-11	OSCILLATOR, CRYSTAL

****

REF. NO.	PART NO.	DESCRIPTION			REMARK
	* A-1311-733-A	GA BOARD, COMPLETE			
		**********			
		<CONNECTOR>			
CN6501	* 1-580-843-11	PIN, CONNECTOR (POWER)			
CN6502	* 1-580-843-11	PIN, CONNECTOR (POWER)			
CN6503	⚠ 1-540-058-11	OUTLET, AC (POLAR)			
		<FUSE>			
F6501	⚠ 1-532-745-11	FUSE, GLASS TUBE 3.15A/125V			
	1-533-223-11	CLIP, FUSE;F6501			

****

	* A-1311-746-A	GB BOARD, COMPLETE			
		**********			
		<IC>			
IC6301	8-759-198-31	IC UPC1093J-1-T			
		<RESISTOR>			
R6301	1-215-454-00	METAL	24K	1%	1/4W
R6302	1-215-431-00	METAL	2.7K	1%	1/4W
R6303	1-249-417-11	CARBON	1K	5%	1/4W

****

	* A-1316-444-A	G BOARD, COMPLETE			
		**********			
	4-382-854-11	SCREW (M3X10), P, SW (+)			
		<CAPACITOR>			
C6001	⚠ 1-104-708-11	FILM	0.47µF	20%	250V
C6002	⚠ 1-104-706-11	FILM	0.22µF	20%	250V
C6003	⚠ 1-119-906-51	CERAMIC	2200PF	20%	250V
C6004	⚠ 1-119-906-51	CERAMIC	2200PF	20%	250V
C6006	⚠ 1-162-599-12	CERAMIC	0.0047µF		250V
C6007	⚠ 1-162-599-12	CERAMIC	0.0047µF		250V
C6008	1-104-350-11	ELECT(BLOCK)	1000µF	20%	250V
C6009	1-107-671-91	ELECT	22µF	20%	400V
C6010	1-104-350-11	ELECT(BLOCK)	1000µF	20%	250V
C6012	1-126-968-11	ELECT	100µF	20%	50V
C6013	1-126-964-11	ELECT	10µF	20%	50V
C6014	1-104-664-11	ELECT	47µF	20%	25V
C6015	1-137-605-11	FILM	0.01µF	10%	250V
C6016	1-126-961-11	ELECT	2.2µF	20%	50V
C6017	1-126-968-11	ELECT	100µF	20%	50V
C6018	1-102-112-00	CERAMIC	330PF	10%	50V

Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

REF. NO.	PART NO.	DESCRIPTION			REMARK
C6019	1-102-112-00	CERAMIC	330PF	10%	50V
C6020	1-136-165-00	FILM	0.1µF	5%	50V
C6021	1-126-960-11	ELECT	1µF	20%	50V
C6022	1-137-219-11	FILM	0.015µF	5%	0
C6023	1-115-405-11	FILM	0.039µF	3%	1KV
C6025	1-125-969-91	CERAMIC	680PF	10%	1KV
C6026	1-125-969-91	CERAMIC	680PF	10%	1KV
C6027	1-126-964-11	ELECT	10µF	20%	50V
C6028	1-136-479-11	FILM	0.001µF	2%	50V
C6029	1-102-112-00	CERAMIC	330PF	10%	50V
C6030	1-102-112-00	CERAMIC	330PF	10%	50V
C6031	1-126-960-11	ELECT	1µF	20%	50V
C6032	1-136-165-00	FILM	0.1µF	5%	50V
C6033	1-125-969-91	CERAMIC	680PF	10%	1KV
C6034	1-125-969-91	CERAMIC	680PF	10%	1KV
C6035	1-126-964-11	ELECT	10µF	20%	50V
C6036	1-136-165-00	FILM	0.1µF	5%	50V
C6037	1-126-964-11	ELECT	10µF	20%	50V
C6102	1-104-665-11	ELECT	100µF	20%	25V
C6103	1-104-664-11	ELECT	47µF	20%	25V
C6104	1-101-810-00	CERAMIC	100PF	5%	500V
C6105	1-101-810-00	CERAMIC	100PF	5%	500V
C6106	1-101-810-00	CERAMIC	100PF	5%	500V
C6107	1-101-810-00	CERAMIC	100PF	5%	500V
C6108	1-104-664-11	ELECT	47µF	20%	25V
C6109	1-101-810-00	CERAMIC	100PF	5%	500V
C6110	1-101-810-00	CERAMIC	100PF	5%	500V
C6111	1-101-810-00	CERAMIC	100PF	5%	500V
C6112	1-101-810-00	CERAMIC	100PF	5%	500V
C6113	1-107-639-11	ELECT	47µF	20%	160V
C6114	1-107-641-11	ELECT	220µF	20%	160V
C6115	1-104-665-11	ELECT	100µF	20%	25V
C6116	1-126-968-11	ELECT	100µF	20%	50V
C6117	1-128-546-11	ELECT	10000µF	20%	10V
C6118	1-126-943-11	ELECT	2200µF	20%	25V
C6119	1-126-943-11	ELECT	2200µF	20%	25V
C6120	1-128-549-11	ELECT	3300µF	20%	35V
C6121	1-128-549-11	ELECT	3300µF	20%	35V
C6122	1-126-943-11	ELECT	2200µF	20%	25V
C6123	1-107-641-11	ELECT	220µF	20%	160V
C6124	1-128-549-11	ELECT	3300µF	20%	35V
C6125	1-128-549-11	ELECT	3300µF	20%	35V
C6126	1-104-665-11	ELECT	100µF	20%	25V
C6127	1-107-639-11	ELECT	47µF	20%	160V
C6128	1-128-549-11	ELECT	3300µF	20%	35V
C6129	1-128-549-11	ELECT	3300µF	20%	35V
C6131	1-104-665-11	ELECT	100µF	20%	25V
C6132	1-104-665-11	ELECT	100µF	20%	25V
C6133	1-104-665-11	ELECT	100µF	20%	25V
C6134	1-126-968-11	ELECT	100µF	20%	50V
C6135	1-126-968-11	ELECT	100µF	20%	50V
C6137	1-104-666-11	ELECT	220µF	20%	25V
C6140	1-104-665-11	ELECT	100µF	20%	25V
C6141	1-101-810-00	CERAMIC	100PF	5%	500V
C6142	1-101-810-00	CERAMIC	100PF	5%	500V
C6143	1-101-810-00	CERAMIC	100PF	5%	500V
C6144	1-101-810-00	CERAMIC	100PF	5%	500V
C6145	1-126-916-11	ELECT	1000µF	20%	6.3V
C6150	1-136-165-00	FILM	0.1µF	5%	50V
C6151	1-101-810-00	CERAMIC	100PF	5%	500V
C6152	1-101-810-00	CERAMIC	100PF	5%	500V
C6153	1-101-810-00	CERAMIC	100PF	5%	500V
C6154	1-101-810-00	CERAMIC	100PF	5%	500V

<CONNECTOR>

CN6004*	1-580-843-11	PIN, CONNECTOR (POWER)		
CN6101*	1-564-510-11	PLUG, CONNECTOR	7P	
CN6102*	1-691-757-11	PIN, CONNECTOR (PC BOARD)		8P
CN6103	1-695-915-11	TAB (CONTACT)		
CN6104*	1-564-512-11	PLUG, CONNECTOR	9P	
CN6105*	1-564-509-11	PLUG, CONNECTOR	6P	
CN6106*	1-573-964-11	PIN, CONNECTOR (PC BOARD)		6P
CN6107	1-695-915-11	TAB (CONTACT)		

<DIODE>

D6001	8-719-068-00	DIODE	ERC04-06SE
D6001	8-719-911-55	DIODE	U05G
D6002 ⚠	8-719-033-58	DIODE	RBV-1506
D6003	8-719-068-00	DIODE	ERC04-06SE
D6003	8-719-911-55	DIODE	U05G
D6004	8-719-110-31	DIODE	RD12ESB2
D6005	8-719-979-64	DIODE	UF4005PKG23
D6006	8-719-059-23	DIODE	P6KE200AG23
D6007	8-719-991-33	DIODE	1SS133T-77
D6009	8-719-982-26	DIODE	MTZJ-33B
D6010	8-719-991-33	DIODE	1SS133T-77
D6011	8-719-923-60	DIODE	MTZJ-T-77-9.1A
D6012	8-719-991-33	DIODE	1SS133T-77
D6013	8-719-991-33	DIODE	1SS133T-77
D6014	8-719-991-33	DIODE	1SS133T-77
D6015	8-719-063-73	DIODE	D1NL20U-TR
D6016	8-719-979-64	DIODE	UF4005PKG23
D6017	8-719-110-53	DIODE	RD20ESB2
D6018	8-719-979-64	DIODE	UF4005PKG23
D6019	8-719-110-53	DIODE	RD20ESB2
D6020	8-719-210-53	DIODE	11ES4-TA1B
D6021	8-719-110-53	DIODE	RD20ESB2
D6022	8-719-110-53	DIODE	RD20ESB2
D6023	8-719-991-33	DIODE	1SS133T-77
D6024	8-719-991-33	DIODE	1SS133T-77
D6025	8-719-979-64	DIODE	UF4005PKG23
D6026	8-719-110-53	DIODE	RD20ESB2
D6027	8-719-979-64	DIODE	UF4005PKG23
D6028	8-719-110-53	DIODE	RD20ESB2
D6029	8-719-110-53	DIODE	RD20ESB2
D6030	8-719-110-53	DIODE	RD20ESB2
D6031	8-719-210-53	DIODE	11ES4-TA1B
D6032	8-719-979-64	DIODE	UF4005PKG23
D6033	8-719-991-33	DIODE	1SS133T-77
D6034	8-719-991-33	DIODE	1SS133T-77
D6035	8-719-110-31	DIODE	RD12ESB2
D6101	8-719-210-53	DIODE	11ES4-TA1B

Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

REF. NO.	PART NO.	DESCRIPTION	REMARK
D6102	8-719-057-96	DIODE D10SC6M-4012	
D6103	8-719-052-90	DIODE D1NL40-TA2	
D6104	8-719-031-78	DIODE S2L40F	
D6105	8-719-052-91	DIODE D4SBS4-F	
D6106	8-719-052-90	DIODE D1NL40-TA2	
D6107	8-719-031-78	DIODE S2L40F	
D6108	8-719-057-96	DIODE D10SC6M-4012	
D6109	8-719-049-92	DIODE SF10SC3L	
D6110	8-719-982-27	DIODE MTZJ-33C	
D6111	8-719-991-33	DIODE 1SS133T-77	
D6112	8-719-991-33	DIODE 1SS133T-77	
D6113	8-719-991-33	DIODE 1SS133T-77	
D6114	8-719-072-30	DIODE D25SC6MRF04	
D6116	8-719-072-29	DIODE D25SC6µF04	
D6117	8-719-988-31	DIODE D10SC6MR	
D6119	8-719-110-31	DIODE RD12ESB2	
D6120	8-719-063-73	DIODE D1NL20U-TR	
D6121	8-719-921-63	DIODE MTZJ-7.5B	
D6122	8-719-991-33	DIODE 1SS133T-77	
D6123	8-719-991-33	DIODE 1SS133T-77	
D6124	8-719-991-33	DIODE 1SS133T-77	
D6125	8-719-991-33	DIODE 1SS133T-77	
		<FUSE>	
F6001 ⚠	1-576-048-11	FUSE, GLASS TUBE 10A/125V	
	1-533-223-11	CLIP, FUSE;F6001	
F6002 ⚠	1-533-759-11	FUSE	
F6105 ⚠	1-533-790-31	LINK,IC	
F6106 ⚠	1-533-790-31	LINK,IC	
		<FERRITE BEAD>	
FB6101	1-410-397-21	FERRITE 1.1µH	
FB6102	1-410-397-21	FERRITE 1.1µH	
		<IC>	
IC6001	8-759-468-89	IC TOP209P	
IC6002	8-759-185-47	IC IR2112	
IC6003	8-759-077-25	IC IR3M02A	
IC6004	8-759-185-47	IC IR2112	
IC6005	8-749-010-64	PHOTO COUPLER PC123F2	
IC6011	8-749-010-64	PHOTO COUPLER PC123F2	
IC6101⚠	8-749-920-61	IC SE-135N	
IC6102	8-759-103-93	IC UPC393C	
IC6103	8-759-198-31	IC UPC1093J-1-T	
IC6104	8-759-450-47	IC BA05T	
IC6301	8-759-198-31	IC UPC1093J-1-T	
		<COIL>	
L6001 ⚠	1-431-116-11	TRANSFORMER, LINE FILTER	
L6002 ⚠	1-431-116-11	TRANSFORMER, LINE FILTER	
L6103	1-412-523-25	INDUCTOR 6.8µH	
L6104	1-412-523-25	INDUCTOR 6.8µH	
L6105	1-412-525-31	INDUCTOR 10µH	
L6106	1-412-525-31	INDUCTOR 10µH	
L6107	1-406-659-11	INDUCTOR 10µH	
L6108	1-412-525-31	INDUCTOR 10µH	
L6109	1-412-525-31	INDUCTOR 10µH	
L6110	1-412-525-31	INDUCTOR 10µH	
L6111	1-412-525-31	INDUCTOR 10µH	
L6112	1-412-525-31	INDUCTOR 10µH	
		<IC LINK>	
PS6101⚠	1-533-597-31	LINK,IC	
PS6102⚠	1-533-597-31	LINK,IC	
PS6103⚠	1-533-790-31	LINK,IC	
PS6104⚠	1-533-790-31	LINK,IC	
		<TRANSISTOR>	
Q6001	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q6002	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q6003	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q6004	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q6005	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q6006	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q6007	8-729-044-42	TRANSISTOR IRFI644G-LF36	
Q6008	8-729-044-42	TRANSISTOR IRFI644G-LF36	
Q6009	8-729-044-42	TRANSISTOR IRFI644G-LF36	
Q6010	8-729-044-42	TRANSISTOR IRFI644G-LF36	
Q6011	8-729-140-97	TRANSISTOR 2SB734-34	
Q6012	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q6013	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q6101	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q6102	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q6103	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q6104	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q6106	8-729-119-76	TRANSISTOR 2SA1175-HFE	
		<RESISTOR>	
R6001 ⚠	1-219-776-11	CARBON 2.2M 10% 1/2W	
R6002 ⚠	1-219-759-11	CARBON 1M 5% 1/2W	
R6004	1-260-131-11	CARBON 470K 5% 1/2W	
R6005	1-249-401-11	CARBON 47 5% 1/4W F	
R6006	1-260-127-11	CARBON 220K 5% 1/2W	
R6007	1-249-437-11	CARBON 47K 5% 1/4W	
R6008	1-260-127-11	CARBON 220K 5% 1/2W	
R6010	1-205-997-11	CEMENTED 2.2 5% 10W	
R6011	1-249-437-11	CARBON 47K 5% 1/4W	
R6012 ⚠	1-212-849-00	FUSIBLE 4.7 5% 1/4W F	
R6013	1-247-895-91	CARBON 470K 5% 1/4W	
R6014	1-249-437-11	CARBON 47K 5% 1/4W	
R6015	1-249-437-11	CARBON 47K 5% 1/4W	
R6016	1-249-437-11	CARBON 47K 5% 1/4W	
R6017	1-249-417-11	CARBON 1K 5% 1/4W	
R6018	1-247-863-91	CARBON 22K 5% 1/4W	
R6019	1-249-429-11	CARBON 10K 5% 1/4W	
R6020	1-249-425-11	CARBON 4.7K 5% 1/4W	
R6021	1-247-791-91	CARBON 22 5% 1/4W	
R6022	1-249-437-11	CARBON 47K 5% 1/4W	

Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

REF. NO.	PART NO.	DESCRIPTION			REMARK
R6023	1-247-895-91	CARBON	470K	5%	1/4W
R6024	1-249-397-11	CARBON	22	5%	1/4W F
R6025	1-249-397-11	CARBON	22	5%	1/4W F
R6026	1-249-425-11	CARBON	4.7K	5%	1/4W
R6027	1-249-425-11	CARBON	4.7K	5%	1/4W
R6028	1-215-427-00	METAL	1.8K	1%	1/4W
R6029	1-247-863-91	CARBON	22K	5%	1/4W
R6030	1-249-437-11	CARBON	47K	5%	1/4W
R6031	1-249-425-11	CARBON	4.7K	5%	1/4W
R6032	1-249-417-11	CARBON	1K	5%	1/4W
R6033	1-215-444-00	METAL	9.1K	1%	1/4W
R6034	1-249-417-11	CARBON	1K	5%	1/4W
R6035	1-249-397-11	CARBON	22	5%	1/4W F
R6036	1-249-397-11	CARBON	22	5%	1/4W F
R6037	1-249-425-11	CARBON	4.7K	5%	1/4W
R6038	1-249-425-11	CARBON	4.7K	5%	1/4W
R6039	1-249-429-11	CARBON	10K	5%	1/4W
R6040	1-249-429-11	CARBON	10K	5%	1/4W
R6041	1-249-429-11	CARBON	10K	5%	1/4W
R6042	1-249-437-11	CARBON	47K	5%	1/4W
R6043	1-260-134-11	CARBON	820K	5%	1/2W
R6101 ⚠	1-215-437-00	METAL	4.7K	1%	1/4W
R6102	1-215-479-00	METAL	270K	1%	1/4W
R6103	1-215-437-00	METAL	4.7K	1%	1/4W
R6104	1-215-413-00	METAL	470	1%	1/4W
R6105	1-249-417-11	CARBON	1K	5%	1/4W
R6106	1-249-417-11	CARBON	1K	5%	1/4W
R6108	1-249-425-11	CARBON	4.7K	5%	1/4W
R6109	1-249-425-11	CARBON	4.7K	5%	1/4W
R6110	1-249-417-11	CARBON	1K	5%	1/4W
R6111	1-215-900-11	METAL OXIDE	22K	5%	2W F
R6112	1-249-417-11	CARBON	1K	5%	1/4W
R6113	1-249-429-11	CARBON	10K	5%	1/4W
R6115	1-249-409-11	CARBON	220	5%	1/4W F
R6116	1-249-429-11	CARBON	10K	5%	1/4W
R6117	1-249-413-11	CARBON	470	5%	1/4W
R6118	1-216-361-00	METAL OXIDE	0.22	5%	2W F
R6119	1-249-429-11	CARBON	10K	5%	1/4W
R6120	1-249-429-11	CARBON	10K	5%	1/4W
R6121	1-249-429-11	CARBON	10K	5%	1/4W
R6122	1-249-377-11	CARBON	0.47	5%	1/4W F
R6123	1-249-377-11	CARBON	0.47	5%	1/4W F
R6124	1-249-377-11	CARBON	0.47	5%	1/4W F
R6125	1-249-425-11	CARBON	4.7K	5%	1/4W
R6126	1-249-417-11	CARBON	1K	5%	1/4W
R6128	1-249-417-11	CARBON	1K	5%	1/4W
R6129	1-249-421-11	CARBON	2.2K	5%	1/4W
R6130	1-249-425-11	CARBON	4.7K	5%	1/4W
R6132	1-249-417-11	CARBON	1K	5%	1/4W
R6133	1-249-425-11	CARBON	4.7K	5%	1/4W
R6134	1-249-417-11	CARBON	1K	5%	1/4W
R6135	1-249-425-11	CARBON	4.7K	5%	1/4W
R6136	1-249-425-11	CARBON	4.7K	5%	1/4W
R6141	1-249-401-11	CARBON	47	5%	1/4W F
R6142	1-249-425-11	CARBON	4.7K	5%	1/4W
R6143	1-249-425-11	CARBON	4.7K	5%	1/4W

REF. NO.	PART NO.	DESCRIPTION			REMARK
R6301	1-215-454-00	METAL	24K	1%	1/4W
R6302	1-215-431-00	METAL	2.7K	1%	1/4W
R6303	1-249-417-11	CARBON	1K	5%	1/4W
		<RELAY>			
RY6001⚠	1-515-999-11	RELAY, POWER			
RY6002⚠	1-515-999-11	RELAY, POWER			
		<TRANSFORMER>			
T6001 ⚠	1-429-807-11	TRANSFORMER, CONVERTER (PIT)			
T6002 ⚠	1-431-897-11	TRANSFORMER, CONVERTER (PIT)			
T6003 ⚠	1-431-732-11	TRANSFORMER, CONVERTER (SRT)			
		<VARISTOR>			
VD6001⚠	1-801-073-31	VARISTOR TNR	14V	471K	660
**********					
*	A-1331-887-A	CR BOARD, COMPLETE (VAR)			
		**********			
	4-382-854-51	SCREW (M3X8), P, SW (+)			
		<CAPACITOR>			
C7102	1-162-115-00	CERAMIC	330PF	10%	2KV
C7103	1-107-662-11	ELECT	22µF	20%	250V
C7104	1-126-768-11	ELECT	2200µF	20%	16V
C7105	1-162-115-00	CERAMIC	330PF	10%	2KV
C7106	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C7107	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C7108	1-126-967-11	ELECT	47µF	20%	50V
C7109	1-161-830-00	CERAMIC	0.0047µF		500V
C7110	1-102-050-00	CERAMIC	0.01µF	99%	500V
C7111	1-102-157-00	CERAMIC	560PF	10%	500V
C7113	1-126-964-11	ELECT	10µF	20%	50V
		<CONNECTOR>			
CN7101*	1-564-511-11	PLUG, CONNECTOR	8P		
CN7102*	1-564-509-11	PLUG, CONNECTOR	6P		
CN7103*	1-564-512-11	PLUG, CONNECTOR	9P		
CN7104*	1-508-784-00	PIN, CONNECTOR (5MM PITCH)	1P		
CN7107	1-695-915-11	TAB (CONTACT)			
		<DIODE>			
D7102	8-719-921-86	DIODE MTZJ-13			
D7103	8-719-901-83	DIODE 1SS83			
D7104	8-719-901-83	DIODE 1SS83			
D7105	8-719-901-83	DIODE 1SS83			
D7106	8-719-901-83	DIODE 1SS83			
D7107	1-216-295-91	SHORT 0			
D7109	8-719-921-86	DIODE MTZJ-13			

Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

REF. NO.	PART NO.	DESCRIPTION				REMARK
D7110	8-719-921-86	DIODE MTZJ-13				
		<IC>				
IC7101	8-759-360-83	IC TDA6111Q/N4				
		<JACK>				
J7101 ⚠	1-251-179-11	SOCKET, CRT				
		<COIL>				
L7102	1-414-223-11	INDUCTOR	470µH			
L7103	1-414-177-11	INDUCTOR	1µH			
L7104	1-414-187-11	INDUCTOR	47µH			
		<NEON LAMP>				
NL7101	1-517-778-21	LAMP, NEON				
NL7102	1-517-778-21	LAMP, NEON				
NL7103	1-517-778-21	LAMP, NEON				
		<TRANSISTOR>				
Q7101	8-729-422-27	TRANSISTOR 2SD601A-Q				
Q7102	8-729-216-22	TRANSISTOR 2SA1162-G				
		<RESISTOR>				
R7101	1-260-132-11	CARBON	560K	5%	1/2W	
R7102 ⚠	1-249-389-11	CARBON	4.7	5%	1/4W F	
R7103	1-216-295-91	SHORT	0			
R7105	1-260-117-11	CARBON	33K	5%	1/2W	
R7106	1-219-743-11	CARBON	100	5%	1/2W	
R7107	1-216-067-00	RES,CHIP	5.6K	5%	1/10W	
R7108	1-260-133-11	CARBON	680K	5%	1/2W	
R7109	1-216-075-00	RES,CHIP	12K	5%	1/10W	
R7110	1-208-793-11	RES,CHIP	3K	0.50%	1/10W	
R7111	1-216-033-00	RES,CHIP	220	5%	1/10W	
R7112	1-249-424-11	CARBON	3.9K	5%	1/4W	
R7113	1-216-029-00	RES,CHIP	150	5%	1/10W	
R7114	1-208-791-11	RES,CHIP	2.4K	0.50%	1/10W	
R7116	1-215-904-11	METAL OXIDE	100K	5%	2W F	
R7117	1-260-093-11	CARBON	330	5%	1/2W	
R7118	1-260-087-11	CARBON	100	5%	1/2W	
R7119	1-260-099-11	CARBON	1K	5%	1/2W	
R7122	1-216-033-00	RES,CHIP	220	5%	1/10W	
R7123	1-216-053-00	RES,CHIP	1.5K	5%	1/10W	
R7126	1-208-802-11	RES,CHIP	6.8K	0.50%	1/10W	
R7127	1-208-802-11	RES,CHIP	6.8K	0.50%	1/10W	
		<SPARK GAP>				
SG7101	1-519-422-11	GAP, SPARK				
SG7102	1-519-422-11	GAP, SPARK				

REF. NO.	PART NO.	DESCRIPTION				REMARK
**********						
		* A-1331-888-A CG BOARD, COMPLETE (VAR)				
		**********				
	4-382-854-51	SCREW (M3X8), P, SW (+)				
		<CAPACITOR>				
C7202	1-162-115-00	CERAMIC	330PF	10%	2KV	
C7203	1-126-768-11	ELECT	2200µF	20%	16V	
C7204	1-107-662-11	ELECT	22µF	20%	250V	
C7205	1-163-038-91	CERAMIC CHIP	0.1µF		25V	
C7206	1-163-038-91	CERAMIC CHIP	0.1µF		25V	
C7207	1-162-115-00	CERAMIC	330PF	10%	2KV	
C7208	1-126-967-11	ELECT	47µF	20%	50V	
C7209	1-102-050-00	CERAMIC	0.01µF	99%	500V	
C7210	1-161-830-00	CERAMIC	0.0047µF	500V		
C7211	1-102-157-00	CERAMIC	560PF	10%	500V	
C7213	1-163-085-00	CERAMIC CHIP	2PF	0.25PF	50V	
C7214	1-126-964-11	ELECT	10µF	20%	50V	
C7215	1-163-224-11	CERAMIC CHIP	7PF	0.25PF	50V	
		<CONNECTOR>				
CN7201*	1-564-509-11	PLUG, CONNECTOR	6P			
CN7202*	1-564-508-11	PLUG, CONNECTOR	5P			
CN7203*	1-564-512-11	PLUG, CONNECTOR	9P			
CN7204*	1-564-512-11	PLUG, CONNECTOR	9P			
CN7205*	1-508-784-00	PIN, CONNECTOR (5MM PITCH)	1P			
CN7208	1-695-915-11	TAB (CONTACT)				
		<DIODE>				
D7202	8-719-921-86	DIODE MTZJ-13				
D7203	8-719-901-83	DIODE 1SS83				
D7204	8-719-901-83	DIODE 1SS83				
D7205	8-719-901-83	DIODE 1SS83				
D7206	8-719-901-83	DIODE 1SS83				
D7207	1-216-295-91	SHORT	0			
D7208	8-719-404-50	DIODE MA111-TX				
		<IC>				
IC7201	8-759-360-83	IC TDA6111Q/N4				
		<JACK>				
J7201 ⚠	1-251-179-11	SOCKET, CRT				
		<COIL>				
L7201	1-414-223-11	INDUCTOR	470µH			
L7203	1-414-177-11	INDUCTOR	1µH			
L7204	1-414-187-11	INDUCTOR	47µH			

CG CB

Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

REF. NO.	PART NO.	DESCRIPTION			REMARK
		<NEON LAMP>			
NL7201	1-517-778-21	LAMP, NEON			
NL7202	1-517-778-21	LAMP, NEON			
		<TRANSISTOR>			
Q7201	8-729-422-27	TRANSISTOR 2SD601A-Q			
Q7202	8-729-216-22	TRANSISTOR 2SA1162-G			
		<RESISTOR>			
R7201	1-260-132-11	CARBON	560K	5%	1/2W
R7202	1-216-295-91	SHORT	0		
R7203	1-216-121-91	RES,CHIP	1M	5%	1/10W
R7204	1-219-743-11	CARBON	100	5%	1/2W
R7205	1-260-117-11	CARBON	33K	5%	1/2W
R7206	1-216-067-00	RES,CHIP	5.6K	5%	1/10W
R7207	1-216-075-00	RES,CHIP	12K	5%	1/10W
R7208	1-216-033-00	RES,CHIP	220	5%	1/10W
R7209	1-260-133-11	CARBON	680K	5%	1/2W
R7210	1-208-794-11	RES,CHIP	3.3K	0.50%	1/10W
R7211	1-249-424-11	CARBON	3.9K	5%	1/4W
R7212	1-208-788-11	RES,CHIP	1.8K	0.50%	1/10W
R7213	1-215-904-11	METAL OXIDE	100K	5%	2W F
R7214	1-216-029-00	RES,CHIP	150	5%	1/10W
R7216	1-260-093-11	CARBON	330	5%	1/2W
R7217	1-208-810-11	RES,CHIP	15K	0.50%	1/10W
R7218	1-260-099-11	CARBON	1K	5%	1/2W
R7219	1-216-053-00	RES,CHIP	1.5K	5%	1/10W
R7220	1-216-033-00	RES,CHIP	220	5%	1/10W
R7223	1-208-804-11	RES,CHIP	8.2K	0.50%	1/10W
R7224	1-208-802-11	RES,CHIP	6.8K	0.50%	1/10W
		<SPARK GAP>			
SG7201	1-519-422-11	GAP, SPARK			
SG7202	1-519-422-11	GAP, SPARK			
SG7203	1-519-422-11	GAP, SPARK			

****

* A-1331-889-A CB BOARD, COMPLETE (VAR)
****

4-382-854-51 SCREW (M3X8), P, SW (+)

<CAPACITOR>

C7302	1-162-115-00	CERAMIC	330PF	10%	2KV
C7303	1-162-115-00	CERAMIC	330PF	10%	2KV
C7304	1-126-768-11	ELECT	2200µF	20%	16V
C7305	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C7306	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C7307	1-107-662-11	ELECT	22µF	20%	250V
C7308	1-126-967-11	ELECT	47µF	20%	50V
C7309	1-163-085-00	CERAMIC CHIP	2PF	0.25PF	50V
C7310	1-161-830-00	CERAMIC	0.0047µF		500V
C7311	1-102-050-00	CERAMIC	0.01µF	99%	500V
C7312	1-102-157-00	CERAMIC	560PF	10%	500V
C7314	1-126-964-11	ELECT	10µF	20%	50V
C7315	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V

<CONNECTOR>

CN7301*	1-564-508-11	PLUG, CONNECTOR	5P	
CN7302*	1-564-512-11	PLUG, CONNECTOR	9P	
CN7303*	1-564-510-11	PLUG, CONNECTOR	7P	
CN7304*	1-508-784-00	PIN, CONNECTOR (5mm PITCH)		1P
CN7307	1-695-915-11	TAB (CONTACT)		
CN7314*	1-564-507-11	PLUG, CONNECTOR	4P	

<DIODE>

D7302	8-719-921-86	DIODE	MTZJ-13
D7303	8-719-901-83	DIODE	1SS83
D7304	8-719-901-83	DIODE	1SS83
D7305	8-719-901-83	DIODE	1SS83
D7306	8-719-901-83	DIODE	1SS83
D7307	8-719-404-50	DIODE	MA111-TX
D7310	8-719-991-33	DIODE	1SS133T-77
D7311	8-719-921-86	DIODE	MTZJ-13
D7312	8-719-921-86	DIODE	MTZJ-13
D7313	1-216-295-91	SHORT	0

<IC>

IC7301 8-759-360-83 IC TDA6111Q/N4

<JACK>

J7301 ⚠ 1-251-179-11 SOCKET, CRT

<COIL>

L7301	1-414-223-11	INDUCTOR	470µH
L7303	1-414-177-11	INDUCTOR	1µH
L7304	1-414-187-11	INDUCTOR	47µH

<NEON LAMP>

NL7301	1-517-778-21	LAMP, NEON
NL7302	1-517-778-21	LAMP, NEON
NL7303	1-517-778-21	LAMP, NEON

<TRANSISTOR>

Q7301	8-729-422-27	TRANSISTOR	2SD601A-Q
Q7302	8-729-216-22	TRANSISTOR	2SA1162-G

<RESISTOR>

R7301	1-219-743-11	CARBON	100	5%	1/2W
R7302	1-260-132-11	CARBON	560K	5%	1/2W

REF. NO.	PART NO.	DESCRIPTION			REMARK
R7303	1-249-393-11	CARBON	10	5%	1/4W F
R7304	1-216-295-91	SHORT	0		
R7306	1-260-099-11	CARBON	1K	5%	1/2W
R7307	1-208-800-11	RES,CHIP	5.6K	0.50%	1/10W
R7308	1-260-133-11	CARBON	680K	5%	1/2W
R7309	1-208-791-11	RES,CHIP	2.4K	0.50%	1/10W
R7310	1-208-782-11	RES,CHIP	1K	0.50%	1/10W
R7311	1-208-808-11	RES,CHIP	12K	0.50%	1/10W
R7312	1-208-793-11	RES,CHIP	3K	0.50%	1/10W
R7313	1-216-033-00	RES,CHIP	220	5%	1/10W
R7314	1-249-424-11	CARBON	3.9K	5%	1/4W
R7315	1-216-029-00	RES,CHIP	150	5%	1/10W
R7316	1-215-904-11	METAL OXIDE	100K	5%	2W F
R7317	1-260-093-11	CARBON	330	5%	1/2W
R7319	1-208-806-11	RES,CHIP	10K	0.50%	1/10W
R7320	1-260-087-11	CARBON	100	5%	1/2W
R7321	1-260-117-11	CARBON	33K	5%	1/2W
R7323	1-216-033-00	RES,CHIP	220	5%	1/10W
R7324	1-216-053-00	RES,CHIP	1.5K	5%	1/10W
R7326	1-208-803-11	RES,CHIP	7.5K	0.50%	1/10W
R7327	1-208-802-11	RES,CHIP	6.8K	0.50%	1/10W
		<SPARK GAP>			
SG7301	1-519-422-11	GAP, SPARK			
SG7302	1-519-422-11	GAP, SPARK			

****

* A-1343-620-A D BOARD, COMPLETE
****

4-363-414-00	SPACER, MICA	
4-382-854-11	SCREW (M3X10), P, SW (+)	
7-682-952-09	SCREW +PSW 3X16	

<CAPACITOR>

C5001	1-104-664-11	ELECT	47µF	20%	25V
C5002	1-126-960-11	ELECT	1µF	20%	50V
C5003	1-104-664-11	ELECT	47µF	20%	25V
C5004	1-101-002-00	CERAMIC	0.0022µF		50V
C5005	1-130-495-00	FILM	0.1µF	5%	50V
C5006	1-101-002-00	CERAMIC	0.0022µF		50V
C5007	1-102-973-00	CERAMIC	100PF	5%	50V
C5008	1-126-967-11	ELECT	47µF	20%	50V
C5010	1-102-973-00	CERAMIC	100PF	5%	50V
C5011	1-126-967-11	ELECT	47µF	20%	50V
C5012	1-107-645-11	ELECT	22µF	20%	160V
C5013	1-126-967-11	ELECT	47µF	20%	50V
C5014	1-101-002-00	CERAMIC	0.0022µF		50V
C5015	1-101-880-00	CERAMIC	47PF	5%	50V
C5016	1-106-383-00	MYLAR	0.047µF	10%	200V
C5017	1-126-967-11	ELECT	47µF	20%	50V
C5019	1-102-244-00	CERAMIC	220PF	10%	500V
C5020	1-130-495-00	FILM	0.1µF	5%	50V
C5023	1-126-960-11	ELECT	1µF	20%	50V
C5024	1-126-942-61	ELECT	1000µF	20%	25V
C5025	1-126-942-61	ELECT	1000µF	20%	25V
C5026	1-137-370-11	FILM	0.01µF	5%	50V
C5028	1-102-228-00	CERAMIC	470PF	10%	500V
C5029	1-164-096-11	CERAMIC	0.01µF		50V
C5030	1-117-666-21	FILM	0.39µF	5%	250V
C5031	1-106-220-00	MYLAR	0.1µF	10%	100V
C5032	1-126-972-11	ELECT	1000µF	20%	50V
C5033	1-101-002-00	CERAMIC	0.0022µF		50V
C5034	1-136-177-00	FILM	1µF	5%	50V
C5035	1-126-967-11	ELECT	47µF	20%	50V
C5036	1-164-096-11	CERAMIC	0.01µF		50V
C5037	1-126-969-11	ELECT	220µF	20%	50V
C5038	1-117-665-11	FILM	0.33µF	5%	250V
C5039	1-117-640-11	FILM	6800PF	3%	1.2KV
C5040	1-137-401-11	FILM	0.22µF	5%	100V
C5041	1-137-420-11	FILM	0.047µF	10%	100V
C5042	1-162-116-00	CERAMIC	680PF	10%	2KV
C5043	1-162-116-00	CERAMIC	680PF	10%	2KV
C5045	1-162-114-00	CERAMIC	0.0047µF		2KV
C5047	1-137-423-11	MYLAR	0.15µF	10%	100V
C5048	1-137-423-11	MYLAR	0.15µF	10%	100V
C5049	1-126-933-11	ELECT	100µF	20%	16V
C5050	1-130-016-11	FILM	680PF	5%	50V
C5051	1-162-318-11	CERAMIC	0.001µF	10%	500V
C5052	1-126-972-11	ELECT	1000µF	20%	50V
C5061	1-102-973-00	CERAMIC	100PF	5%	50V
C5062	1-102-973-00	CERAMIC	100PF	5%	50V
C5063	1-102-973-00	CERAMIC	100PF	5%	50V
C5064	1-102-973-00	CERAMIC	100PF	5%	50V
C5065	1-102-973-00	CERAMIC	100PF	5%	50V
C5066	1-102-973-00	CERAMIC	100PF	5%	50V
C5071	1-126-968-11	ELECT	100µF	20%	50V
C5072	1-126-968-11	ELECT	100µF	20%	50V
C5073	1-126-968-11	ELECT	100µF	20%	50V
C5074	1-126-968-11	ELECT	100µF	20%	50V
C5075	1-126-968-11	ELECT	100µF	20%	50V
C5076	1-126-968-11	ELECT	100µF	20%	50V
C5079	1-126-968-11	ELECT	100µF	20%	50V
C5080	1-126-968-11	ELECT	100µF	20%	50V
C5085	1-101-002-00	CERAMIC	0.0022µF		50V
C5086	1-130-495-00	FILM	0.1µF	5%	50V
C5087	1-130-495-00	FILM	0.1µF	5%	50V
C5090	1-126-960-11	ELECT	1µF	20%	50V
C5093	1-137-370-11	FILM	0.01µF	5%	50V
C5094	1-137-370-11	FILM	0.01µF	5%	50V
C5096	1-162-115-00	CERAMIC	330PF	10%	2KV
C5097	1-126-933-11	ELECT	100µF	20%	16V
C5098	1-126-933-11	ELECT	100µF	20%	16V
C5099	1-104-999-11	MYLAR	0.1µF	10%	200V
C5100	1-124-347-00	ELECT	100µF	20%	160V
C5103	1-107-648-91	ELECT	100µF	20%	160V
C5104	1-107-648-91	ELECT	100µF	20%	160V
C5105	1-137-372-11	FILM	0.022µF	5%	50V
C5106	1-117-667-71	FILM	0.47µF	5%	250V
C5107	1-130-495-00	FILM	0.1µF	5%	50V

Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

REF. NO.	PART NO.	DESCRIPTION			REMARK
C5108	1-130-048-00	FILM	220PF	5%	50V
C5111	1-104-664-11	ELECT	47µF	20%	16V
C5112	1-104-664-11	ELECT	47µF	20%	16V
C5113	1-130-495-00	FILM	0.1µF	5%	50V
C5114	1-136-479-11	FILM	0.001µF	5%	50V
C5116	1-126-967-11	ELECT	47µF	20%	50V
C5118	1-104-664-11	ELECT	47µF	20%	16V
C5119	1-162-318-11	CERAMIC	0.001µF	10%	500V
C5120	1-164-096-11	CERAMIC	0.01µF		50V
C5121	1-164-096-11	CERAMIC	0.01µF		50V
C5122	1-164-096-11	CERAMIC	0.01µF		50V
C5123	1-104-664-11	ELECT	47µF	20%	16V
C5124	1-164-096-11	CERAMIC	0.01µF		50V
C5200	1-104-664-11	ELECT	47µF	20%	16V
C5201	1-164-096-11	CERAMIC	0.01µF		50V
C5202	1-126-972-11	ELECT	1000µF	20%	50V
C5203	1-136-356-11	FILM	470PF	5%	50V
C5204	1-137-366-11	FILM	0.0022µF	5%	50V
C5205	1-137-366-11	FILM	0.0022µF	5%	50V
C5208	1-136-479-11	FILM	0.001µF	5%	50V
C8002	1-110-626-11	ELECT	330µF	20%	160V
C8003	1-110-626-11	ELECT	330µF	20%	160V
C8004	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C8005	1-106-387-00	MYLAR	0.068µF	10%	200V
C8006	1-126-959-11	ELECT	0.47µF	20%	50V
C8007	1-137-150-11	MYLAR	0.01µF	10%	100V
C8008	1-102-030-00	CERAMIC	330PF	10%	500V
C8010	1-130-481-00	FILM	0.0068µF	5%	50V
C8011	1-126-934-11	ELECT	220µF	20%	16V
C8013	1-126-964-11	ELECT	10µF	20%	50V
C8015	1-126-933-11	ELECT	100µF	20%	16V
C8016	1-126-964-11	ELECT	10µF	20%	50V
C8017	1-126-964-11	ELECT	10µF	20%	50V
C8018 ⚠	1-117-642-11	FILM	8200PF	3%	1.2KV
C8019	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C8020	1-162-318-11	CERAMIC	0.001µF	10%	500V
C8021	1-163-237-11	CERAMIC CHIP	27PF	5%	50V
C8022	1-107-652-11	ELECT	10µF	20%	250V
C8023	1-126-767-11	ELECT	1000µF	20%	16V
C8024	1-126-968-11	ELECT	100µF	20%	50V
C8025	1-128-562-11	ELECT	47µF	20%	100V
C8026	1-164-161-11	CERAMIC CHIP	0.0022µF	10%	50V
C8028	1-137-368-11	FILM	0.0047µF	5%	50V
C8029	1-164-161-11	CERAMIC CHIP	0.0022µF	10%	50V
C8030	1-126-967-11	ELECT	47µF	20%	50V
C8031	1-137-374-11	FILM	0.047µF	5%	50V
C8032	1-106-387-00	MYLAR	0.068µF	10%	200V
C8033	1-130-495-00	FILM	0.1µF	5%	50V
C8034	1-126-967-11	ELECT	47µF	20%	50V
C8035	1-126-967-11	ELECT	47µF	20%	50V
C8037	1-130-495-00	FILM	0.1µF	5%	50V
C8038	1-126-967-11	ELECT	47µF	20%	50V
C8039	1-137-420-11	FILM	0.047µF	10%	100V
C8040	1-126-964-11	ELECT	10µF	20%	50V
C8041	1-130-495-00	FILM	0.1µF	5%	50V
C8042	1-126-967-11	ELECT	47µF	20%	50V
C8043	1-130-495-00	FILM	0.1µF	5%	50V
C8044	1-126-197-11	ELECT CHIP	10µF	20%	50V
C8045	1-137-431-11	FILM	560PF	5%	50V
C8046	1-130-495-00	FILM	0.1µF	5%	50V
C8047	1-130-495-00	FILM	0.1µF	5%	50V
C8048	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C8049	1-126-967-11	ELECT	47µF	20%	50V
C8050	1-126-967-11	ELECT	47µF	20%	50V
C8051	1-126-967-11	ELECT	47µF	20%	50V
C8052	1-163-239-11	CERAMIC CHIP	33PF	5%	50V
C8053	1-126-960-11	ELECT	1µF	20%	50V
C8054	1-126-960-11	ELECT	1µF	20%	50V
C8055	1-126-961-11	ELECT	2.2µF	20%	50V
C8057	1-126-964-11	ELECT	10µF	20%	50V
C8059	1-126-965-11	ELECT	22µF	20%	50V
C8060	1-126-963-11	ELECT	4.7µF	20%	50V
C8061	1-126-965-11	ELECT	22µF	20%	50V
C8062	1-126-965-11	ELECT	22µF	20%	50V
C8064	1-130-495-00	FILM	0.1µF	5%	50V
C8065	1-126-964-11	ELECT	10µF	20%	50V
C8066	1-130-471-00	FILM	0.001µF	5%	50V
C8067	1-104-661-91	ELECT	330µF	20%	16V
C8068	1-137-389-11	FILM	0.0022µF	5%	100V
C8069	1-126-967-11	ELECT	47µF	20%	50V
C8071	1-126-963-11	ELECT	4.7µF	20%	50V
C8072	1-126-964-11	ELECT	10µF	20%	50V
C8073	1-126-967-11	ELECT	47µF	20%	50V
C8074	1-137-410-11	FILM	0.001µF	10%	100V
C8075	1-126-965-11	ELECT	22µF	20%	50V
C8076	1-163-009-11	CERAMIC CHIP	0.001µF	10%	50V
C8077	1-137-370-11	FILM	0.01µF	5%	50V
C8078	1-130-495-00	FILM	0.1µF	5%	50V
C8079	1-126-967-11	ELECT	47µF	20%	50V
C8080	1-126-967-11	ELECT	47µF	20%	50V
C8081	1-126-967-11	ELECT	47µF	20%	50V
C8082	1-137-366-11	FILM	0.0022µF	5%	50V
C8083	1-126-964-11	ELECT	10µF	20%	50V
C8084	1-126-967-11	ELECT	47µF	20%	50V
C8085	1-104-661-91	ELECT	330µF	20%	16V
C8086	1-137-150-11	MYLAR	0.01µF	10%	100V
C8089	1-137-399-11	FILM	0.1µF	10%	100V
C8090	1-126-964-11	ELECT	10µF	20%	50V
C8091	1-126-967-11	ELECT	47µF	20%	50V
C8092	1-126-964-11	ELECT	10µF	20%	50V
C8093	1-126-964-11	ELECT	10µF	20%	50V
C8094	1-126-964-11	ELECT	10µF	20%	50V
C8095	1-126-967-11	ELECT	47µF	20%	50V
C8096	1-126-967-11	ELECT	47µF	20%	50V
C8097	1-126-967-11	ELECT	47µF	20%	50V
C8098	1-126-967-11	ELECT	47µF	20%	50V
C8099	1-126-964-11	ELECT	10µF	20%	50V
C8100	1-162-114-00	CERAMIC	0.0047µF		2KV
C8102	1-102-125-00	CERAMIC	0.0047µF	10%	50V
C8103	1-126-964-11	ELECT	10µF	20%	50V
C8104	1-126-961-11	ELECT	2.2µF	20%	50V
C8105	1-137-393-11	FILM	0.01µF	5%	100V
C8106	1-137-367-11	FILM	0.0033µF	5%	50V
C8107	1-163-224-11	CERAMIC CHIP	7PF	0.25PF	50V

REF. NO.	PART NO.	DESCRIPTION			REMARK
C8108	1-163-243-11	CERAMIC CHIP	47PF	5% 50V	
C8109	1-126-964-11	ELECT	10µF	20% 50V	
C8110	1-163-237-11	CERAMIC CHIP	27PF	5% 50V	
C8112	1-102-125-00	CERAMIC	0.0047µF	10% 50V	
C8113	1-126-965-11	ELECT	22µF	20% 50V	
C8114	1-126-967-11	ELECT	47µF	20% 50V	
C8115	1-126-967-11	ELECT	47µF	20% 50V	
C8116	1-126-965-11	ELECT	22µF	20% 50V	
		<CONNECTOR>			
CN5001*	1-564-506-11	PLUG, CONNECTOR	3P		
CN5002*	1-573-964-11	PIN, CONNECTOR (PC BOARD)		6P	
CN5003*	1-564-509-11	PLUG, CONNECTOR	6P		
CN5004*	1-779-890-11	CONNECTOR, BOARD TO BOARD		10P	
CN5005*	1-580-689-11	PIN, CONNECTOR (PC BOARD)		4P	
CN5006*	1-580-689-11	PIN, CONNECTOR (PC BOARD)		4P	
CN5007*	1-580-689-11	PIN, CONNECTOR (PC BOARD)		4P	
CN5008*	1-564-506-11	PLUG, CONNECTOR	3P		
CN5009*	1-779-890-11	CONNECTOR, BOARD TO BOARD		10P	
CN5010*	1-779-890-11	CONNECTOR, BOARD TO BOARD		10P	
CN5011*	1-779-890-11	CONNECTOR, BOARD TO BOARD		10P	
CN5012*	1-564-507-11	PLUG, CONNECTOR	4P		
CN5013*	1-564-507-11	PLUG, CONNECTOR	4P		
CN5014*	1-564-507-11	PLUG, CONNECTOR	4P		
CN5015	1-695-915-11	TAB (CONTACT)			
CN8001*	1-691-135-11	PIN, CONNECTOR (PC BOARD)		4P	
CN8002	1-695-915-11	TAB (CONTACT)			
CN8003*	1-564-509-11	PLUG, CONNECTOR	6P		
CN8004*	1-564-510-11	PLUG, CONNECTOR	7P		
CN8005*	1-564-507-11	PLUG, CONNECTOR	4P		
CN8006*	1-564-507-11	PLUG, CONNECTOR	4P		
CN8007*	1-506-371-00	PIN, CONNECTOR 2P			
CN8008*	1-506-371-00	PIN, CONNECTOR 2P			
CN8010	1-695-915-11	TAB (CONTACT)			
		<DIODE>			
D5001	8-719-991-33	DIODE	1SS133T-77		
D5002	8-719-991-33	DIODE	1SS133T-77		
D5004	8-719-991-33	DIODE	1SS133T-77		
D5005	8-719-109-89	DIODE	RD5.6ESB2		
D5006	8-719-991-33	DIODE	1SS133T-77		
D5008	8-719-991-33	DIODE	1SS133T-77		
D5009	8-719-979-85	DIODE	EGP20G		
D5010	8-719-908-03	DIODE	GP08D		
D5011	8-719-908-03	DIODE	GP08D		
D5013	8-719-979-99	DIODE	ERD08M-15		
D5014	8-719-991-33	DIODE	1SS133T-77		
D5015	8-719-018-82	DIODE	RGP02-20EL-6394		
D5016	8-719-110-61	DIODE	RD24ESB1		
D5017	8-719-110-61	DIODE	RD24ESB1		
D5019	8-719-900-95	DIODE	V09G		
D5020	8-719-900-95	DIODE	V09G		
D5021	8-719-920-67	DIODE	ERC91-02		
D5022	8-719-991-33	DIODE	1SS133T-77		
D5024	8-719-923-86	DIODE	MTZJ-T-77-15		

REF. NO.	PART NO.	DESCRIPTION		REMARK
D5025	8-719-991-33	DIODE	1SS133T-77	
D5027	8-719-923-86	DIODE	MTZJ-T-77-15	
D5028	8-719-991-33	DIODE	1SS133T-77	
D8001	8-719-105-82	DIODE	RD5.1M-B2	
D8002	8-719-914-43	DIODE	DAN202K	
D8004	8-719-914-43	DIODE	DAN202K	
D8005	8-719-914-43	DIODE	DAN202K	
D8006	8-719-914-43	DIODE	DAN202K	
D8007	8-719-945-80	DIODE	ERC06-15S	
D8008	8-719-106-81	DIODE	RD13M-B3	
D8009	8-719-106-81	DIODE	RD13M-B3	
D8010	8-719-054-52	DIODE	D8LC20U-4015	
D8011	8-719-945-80	DIODE	ERC06-15S	
D8013	8-719-920-67	DIODE	ERC91-02	
D8014	8-719-302-43	DIODE	EL1Z	
D8015	8-719-914-43	DIODE	DAN202K	
D8017	8-719-914-43	DIODE	DAN202K	
D8018	8-719-983-14	DIODE	MTZJ-T-77-3.9	
D8021	8-719-914-43	DIODE	DAN202K	
D8023	8-719-914-43	DIODE	DAN202K	
D8024	8-719-914-43	DIODE	DAN202K	
D8025	8-719-914-43	DIODE	DAN202K	
D8026	8-719-914-43	DIODE	DAN202K	
D8027	8-719-914-43	DIODE	DAN202K	
D8029	8-719-914-43	DIODE	DAN202K	
D8030	8-719-400-75	DIODE	MA3091	
D8031	8-719-105-82	DIODE	RD5.1M-B2	
D8032	8-719-302-43	DIODE	EL1Z	
D8033	8-719-914-43	DIODE	DAN202K	
D8034	8-719-028-00	DIODE	MA3033-L	
D8035	8-719-105-82	DIODE	RD5.1M-B2	
D8036	8-719-914-43	DIODE	DAN202K	
D8037	8-719-914-43	DIODE	DAN202K	
D8038	8-719-106-81	DIODE	RD13M-B3	
D8039	8-719-110-16	DIODE	RD10ESB1	
D8040	8-719-914-43	DIODE	DAN202K	
D8041	8-719-106-81	DIODE	RD13M-B3	
D8042	8-759-157-40	IC	UPC574J	
D8043	8-719-914-43	DIODE	DAN202K	
D8044	8-719-979-85	DIODE	EGP20G	
D8045	8-719-400-75	DIODE	MA3091	
D8046	8-719-402-57	DIODE	MA3150H-TX	
D8047	8-719-402-57	DIODE	MA3150H-TX	
D8048	8-719-914-43	DIODE	DAN202K	
D8050	8-719-914-43	DIODE	DAN202K	
D8051	8-719-914-44	DIODE	DAP202K	
D8052	8-719-914-44	DIODE	DAP202K	
D8053	8-719-914-44	DIODE	DAP202K	
D8054	8-719-914-44	DIODE	DAP202K	
		<FERRITE BEAD>		
FB5001	1-410-396-41	FERRITE	0.45µH	
FB8001	1-410-396-41	FERRITE	0.45µH	

Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

REF. NO.	PART NO.	DESCRIPTION	REMARK
		<IC>	
IC5001	8-759-701-88	IC NJM7912FA	
IC5002	8-759-701-79	IC NJM7812FA	
IC5004	8-759-192-71	IC STV9379	
IC5005	8-749-014-67	IC STK392-020	
IC5006	8-749-014-67	IC STK392-020	
IC5008	8-759-103-93	IC UPC393C	
IC5009	8-759-135-80	IC UPC358C	
IC5010	8-759-135-80	IC UPC358C	
IC8001	8-759-711-28	IC NJM2058D	
IC8002	8-759-103-93	IC UPC393C	
IC8003	8-759-012-67	IC MC7905CT	
IC8004	8-759-231-53	IC TA7805S	
IC8005	8-759-183-37	IC CA0007AD	
IC8006	8-759-103-93	IC UPC393C	
IC8007	8-759-711-28	IC NJM2058D	
IC8008	8-759-135-80	IC UPC358C	
IC8009	8-759-135-80	IC UPC358C	
IC8010	8-759-103-93	IC UPC393C	
IC8011	8-759-634-51	IC M5218AP	
		<COIL>	
L5001	1-412-533-21	INDUCTOR 47µH	
L5002	1-412-533-21	INDUCTOR 47µH	
L5003	1-412-533-21	INDUCTOR 47µH	
L5004	1-412-533-21	INDUCTOR 47µH	
L5007	1-416-937-11	COIL, HORIZONTAL LINEARITY	
L5010	1-412-533-21	INDUCTOR 47µH	
L5011	1-412-533-21	INDUCTOR 47µH	
L5012	1-412-533-21	INDUCTOR 47µH	
L5013	1-412-533-21	INDUCTOR 47µH	
L5016	1-459-958-11	INDUCTOR 15MMH	
L5017	1-459-958-11	INDUCTOR 15MMH	
L5018	1-411-594-11	INDUCTOR 5MMH	
L5019	1-459-109-00	COIL,DUST CORE	
L5020	1-406-663-21	INDUCTOR 47µH	
L8001	1-414-193-41	INDUCTOR 220µH	
L8002	1-406-977-21	INDUCTOR 100µH	
L8004	1-412-521-31	INDUCTOR 4.7µH	
L8005	1-412-533-21	INDUCTOR 47µH	
L8006	1-412-533-21	INDUCTOR 47µH	
L8008	1-412-521-31	INDUCTOR 4.7µH	
		<NEON LAMP>	
NL8001	1-517-778-21	LAMP, NEON	
NL8002	1-517-778-21	LAMP, NEON	
NL8003	1-517-778-21	LAMP, NEON	
		<IC LINK>	
PS8001⚠	1-533-593-11	LINK,IC	
		<TRANSISTOR>	
Q5002	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q5004	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q5005	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q5006	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q5008	8-729-119-80	TRANSISTOR 2SC2688-LK	
Q5009	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q5010	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q5013	8-729-048-35	TRANSISTOR 2SC3997S-SONY-YB	
Q5014	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q5015	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q5016	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q5019	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q5022	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q5023	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q5024	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q5025	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q5026	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q5027	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q5029	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q5030	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q5031	8-729-038-83	TRANSISTOR 2SK2251-01-F19	
Q5033	8-729-026-79	TRANSISTOR IRFI620G	
Q5034	8-729-231-55	TRANSISTOR 2SC2878-AB	
Q5035	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q5036	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q5037	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q8001	8-729-119-80	TRANSISTOR 2SC2688-LK	
Q8003	8-729-119-80	TRANSISTOR 2SC2688-LK	
Q8004	8-729-823-81	TRANSISTOR 2SC4632LS-CB7	
Q8005	8-729-231-55	TRANSISTOR 2SC2878-AB	
Q8006	8-729-216-22	TRANSISTOR 2SA1162-G	
Q8007	8-729-017-64	TRANSISTOR 2SC3997-YB	
Q8008	8-729-024-30	TRANSISTOR IRFI640LF	
Q8009	8-729-216-22	TRANSISTOR 2SA1162-G	
Q8010	8-729-216-22	TRANSISTOR 2SA1162-G	
Q8013	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q8014	8-729-823-81	TRANSISTOR 2SC4632LS-CB7	
Q8015	8-729-140-93	TRANSISTOR 2SB733-34	
Q8016	8-729-140-96	TRANSISTOR 2SD774-34	
Q8017	8-729-216-22	TRANSISTOR 2SA1162-G	
Q8018	8-729-231-55	TRANSISTOR 2SC2878-AB	
Q8019	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q8020	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q8021	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q8022	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q8023	8-729-027-38	TRANSISTOR DTA144EKA-T146	
Q8024	1-801-806-11	TRANSISTOR DTC144EKA-T146	
Q8025	8-729-027-38	TRANSISTOR DTA144EKA-T146	
Q8026	8-729-216-22	TRANSISTOR 2SA1162-G	
Q8027	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q8028	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q8029	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q8030	1-801-806-11	TRANSISTOR DTC144EKA-T146	
Q8031	8-729-422-27	TRANSISTOR 2SD601A-Q	
		<RESISTOR>	
R5002	1-249-417-11	CARBON 1K 5% 1/4W	

REF. NO.	PART NO.	DESCRIPTION			REMARK
R5003	1-249-417-11	CARBON	1K	5%	1/4W
R5004	1-249-425-11	CARBON	4.7K	5%	1/4W
R5009	1-249-421-11	CARBON	2.2K	5%	1/4W
R5011	1-247-843-11	CARBON	3.3K	5%	1/4W
R5012	1-249-425-11	CARBON	4.7K	5%	1/4W
R5013	1-249-425-11	CARBON	4.7K	5%	1/4W
R5016	1-249-429-11	CARBON	10K	5%	1/4W
R5017	1-247-863-91	CARBON	22K	5%	1/4W
R5018	1-247-843-11	CARBON	3.3K	5%	1/4W
R5020	1-249-437-11	CARBON	47K	5%	1/4W
R5021	1-215-446-00	METAL	11K	1%	1/4W
R5022	1-247-863-91	CARBON	22K	5%	1/4W
R5023	1-247-863-91	CARBON	22K	5%	1/4W
R5026	1-215-922-11	METAL OXIDE	6.8K	5%	3W F
R5028	1-249-377-11	CARBON	0.47	5%	1/4W F
R5029	1-249-377-11	CARBON	0.47	5%	1/4W F
R5030	1-249-437-11	CARBON	47K	5%	1/4W
R5031	1-216-435-11	METAL OXIDE	2.7K	5%	1W F
R5032	1-215-922-11	METAL OXIDE	6.8K	5%	3W F
R5033	1-249-417-11	CARBON	1K	5%	1/4W
R5034	1-249-429-11	CARBON	10K	5%	1/4W
R5035	1-249-429-11	CARBON	10K	5%	1/4W
R5039	1-249-429-11	CARBON	10K	5%	1/4W
R5040	1-249-417-11	CARBON	1K	5%	1/4W
R5042	1-249-425-11	CARBON	4.7K	5%	1/4W
R5043	1-249-417-11	CARBON	1K	5%	1/4W
R5046	1-216-391-11	METAL OXIDE	1.5	5%	3W F
R5047	1-215-449-00	METAL	15K	1%	1/4W
R5048	1-249-413-11	CARBON	470	5%	1/4W
R5049	1-215-905-11	METAL OXIDE	10	5%	3W F
R5050	1-247-807-31	CARBON	100	5%	1/4W
R5051	1-249-435-11	CARBON	33K	5%	1/4W
R5054	1-249-413-11	CARBON	470	5%	1/4W
R5055	1-215-915-11	METAL OXIDE	470	5%	3W F
R5057	1-249-429-11	CARBON	10K	5%	1/4W
R5058	1-249-430-11	CARBON	12K	5%	1/4W
R5059	1-249-383-11	CARBON	1.5	5%	1/4W F
R5061	1-249-429-11	CARBON	10K	5%	1/4W
R5062	1-247-735-11	SOLID	47	20%	1/2W
R5063	1-247-807-31	CARBON	100	5%	1/4W
R5067	1-214-800-11	METAL	2.2	1%	1/2W
R5068	1-249-429-11	CARBON	10K	5%	1/4W
R5069	1-249-429-11	CARBON	10K	5%	1/4W
R5070	1-216-476-11	METAL OXIDE	180	5%	3W F
R5071	1-214-800-11	METAL	2.2	1%	1/2W
R5072	1-247-807-31	CARBON	100	5%	1/4W
R5073	1-215-432-00	METAL	3K	1%	1/4W
R5074	1-249-437-11	CARBON	47K	5%	1/4W
R5075	1-215-445-00	METAL	10K	1%	1/4W
R5077	1-215-913-11	METAL OXIDE	220	5%	3W F
R5078	1-216-476-11	METAL OXIDE	180	5%	3W F
R5081	1-247-807-31	CARBON	100	5%	1/4W
R5082	1-247-807-31	CARBON	100	5%	1/4W
R5083	1-247-807-31	CARBON	100	5%	1/4W
R5084	1-247-807-31	CARBON	100	5%	1/4W
R5085	1-247-807-31	CARBON	100	5%	1/4W
R5086	1-247-807-31	CARBON	100	5%	1/4W
R5087	1-247-843-11	CARBON	3.3K	5%	1/4W
R5088	1-247-843-11	CARBON	3.3K	5%	1/4W
R5089	1-247-843-11	CARBON	3.3K	5%	1/4W
R5090	1-247-843-11	CARBON	3.3K	5%	1/4W
R5091	1-249-417-11	CARBON	1K	5%	1/4W
R5092	1-249-417-11	CARBON	1K	5%	1/4W
R5093	1-247-843-11	CARBON	3.3K	5%	1/4W
R5095	1-247-843-11	CARBON	3.3K	5%	1/4W
R5097	1-249-417-11	CARBON	1K	5%	1/4W
R5098	1-247-807-31	CARBON	100	5%	1/4W
R5099	1-249-417-11	CARBON	1K	5%	1/4W
R5100	1-247-807-31	CARBON	100	5%	1/4W
R5101	1-214-808-11	METAL	4.7	1%	1/2W
R5102	1-214-808-11	METAL	4.7	1%	1/2W
R5103	1-214-808-11	METAL	4.7	1%	1/2W
R5104	1-214-808-11	METAL	4.7	1%	1/2W
R5105	1-214-808-11	METAL	4.7	1%	1/2W
R5106	1-214-808-11	METAL	4.7	1%	1/2W
R5107	1-249-417-11	CARBON	1K	5%	1/4W
R5108	1-249-417-11	CARBON	1K	5%	1/4W
R5109	1-214-808-11	METAL	4.7	1%	1/2W
R5110	1-214-808-11	METAL	4.7	1%	1/2W
R5111	1-214-808-11	METAL	4.7	1%	1/2W
R5112	1-214-808-11	METAL	4.7	1%	1/2W
R5113	1-214-808-11	METAL	4.7	1%	1/2W
R5114	1-214-808-11	METAL	4.7	1%	1/2W
R5115	1-533-595-21	LINK,IC			
R5116	1-533-595-21	LINK,IC			
R5117	1-214-808-11	METAL	4.7	1%	1/2W
R5118	1-214-808-11	METAL	4.7	1%	1/2W
R5119	1-533-595-21	LINK,IC			
R5120	1-533-595-21	LINK,IC			
R5121	1-214-808-11	METAL	4.7	1%	1/2W
R5122	1-214-808-11	METAL	4.7	1%	1/2W
R5123	1-214-808-11	METAL	4.7	1%	1/2W
R5124	1-214-808-11	METAL	4.7	1%	1/2W
R5125	1-533-595-21	LINK,IC			
R5126	1-533-595-21	LINK,IC			
R5127	1-214-808-11	METAL	4.7	1%	1/2W
R5128	1-214-808-11	METAL	4.7	1%	1/2W
R5129	1-214-808-11	METAL	4.7	1%	1/2W
R5130	1-214-808-11	METAL	4.7	1%	1/2W
R5131	1-214-808-11	METAL	4.7	1%	1/2W
R5132	1-214-808-11	METAL	4.7	1%	1/2W
R5133	1-214-808-11	METAL	4.7	1%	1/2W
R5134	1-214-808-11	METAL	4.7	1%	1/2W
R5135	1-214-808-11	METAL	4.7	1%	1/2W
R5136	1-214-808-11	METAL	4.7	1%	1/2W
R5137	1-214-808-11	METAL	4.7	1%	1/2W
R5138	1-214-808-11	METAL	4.7	1%	1/2W
R5143	1-249-429-11	CARBON	10K	5%	1/4W
R5144	1-249-429-11	CARBON	10K	5%	1/4W
R5145	1-249-429-11	CARBON	10K	5%	1/4W
R5146	1-249-429-11	CARBON	10K	5%	1/4W
R5147	1-249-429-11	CARBON	10K	5%	1/4W
R5148	1-249-429-11	CARBON	10K	5%	1/4W
R5149	1-249-429-11	CARBON	10K	5%	1/4W

REF. NO.	PART NO.	DESCRIPTION			REMARK
R5150	1-249-429-11	CARBON	10K	5%	1/4W
R5151	1-249-429-11	CARBON	10K	5%	1/4W
R5152	1-249-429-11	CARBON	10K	5%	1/4W
R5153	1-249-429-11	CARBON	10K	5%	1/4W
R5154	1-249-429-11	CARBON	10K	5%	1/4W
R5155	1-249-425-11	CARBON	4.7K	5%	1/4W
R5156	1-249-419-11	CARBON	1.5K	5%	1/4W
R5161	1-216-469-11	METAL OXIDE	12	5%	3W F
R5165	1-260-312-11	CARBON	47	5%	1/2W
R5166	1-247-887-00	CARBON	220K	5%	1/4W
R5167	1-260-312-11	CARBON	47	5%	1/2W
R5168	1-260-312-11	CARBON	47	5%	1/2W
R5169	1-249-429-11	CARBON	10K	5%	1/4W
R5170	1-249-441-11	CARBON	100K	5%	1/4W
R5171	1-249-431-11	CARBON	15K	5%	1/4W
R5172	1-247-895-91	CARBON	470K	5%	1/4W
R5173	1-247-895-91	CARBON	470K	5%	1/4W
R5174	1-249-439-11	CARBON	68K	5%	1/4W
R5175	1-215-905-11	METAL OXIDE	10	5%	3W F
R5176	1-215-905-11	METAL OXIDE	10	5%	3W F
R5177	1-249-441-11	CARBON	100K	5%	1/4W
R5178	1-247-843-11	CARBON	3.3K	5%	1/4W
R5179	1-249-425-11	CARBON	4.7K	5%	1/4W
R5180	1-249-421-11	CARBON	2.2K	5%	1/4W
R5181	1-249-422-11	CARBON	2.7K	5%	1/4W
R5182	1-247-895-91	CARBON	470K	5%	1/4W
R5183	1-249-422-11	CARBON	2.7K	5%	1/4W
R5184	1-249-417-11	CARBON	1K	5%	1/4W
R5186	1-249-425-11	CARBON	4.7K	5%	1/4W
R5187	1-249-431-11	CARBON	15K	5%	1/4W
R5188	1-249-429-11	CARBON	10K	5%	1/4W
R5189	1-249-417-11	CARBON	1K	5%	1/4W
R5190	1-249-377-11	CARBON	0.47	5%	1/4W F
R5191	1-249-417-11	CARBON	1K	5%	1/4W
R5192	1-249-421-11	CARBON	2.2K	5%	1/4W
R5193	1-249-439-11	CARBON	68K	5%	1/4W
R5194	1-249-419-11	CARBON	1.5K	5%	1/4W
R5195	1-249-431-11	CARBON	15K	5%	1/4W
R5196	1-249-429-11	CARBON	10K	5%	1/4W
R5197	1-247-807-31	CARBON	100	5%	1/4W
R5199	1-247-863-91	CARBON	22K	5%	1/4W
R5200	1-249-429-11	CARBON	10K	5%	1/4W
R5203	1-249-425-11	CARBON	4.7K	5%	1/4W
R5204	1-249-429-11	CARBON	10K	5%	1/4W
R5205	1-249-425-11	CARBON	4.7K	5%	1/4W
R5206	1-249-425-11	CARBON	4.7K	5%	1/4W
R5207	1-216-395-00	METAL OXIDE	3.3	5%	3W F
R5208	1-216-395-00	METAL OXIDE	3.3	5%	3W F
R5209	1-216-469-11	METAL OXIDE	12	5%	3W F
R5210	1-215-907-11	METAL OXIDE	22	5%	3W F
R5214	1-249-429-11	CARBON	10K	5%	1/4W
R5215	1-249-437-11	CARBON	47K	5%	1/4W
R5216	1-249-422-11	CARBON	2.7K	5%	1/4W
R5217	1-249-429-11	CARBON	10K	5%	1/4W
R5218	1-249-417-11	CARBON	1K	5%	1/4W
R5235	1-215-922-11	METAL OXIDE	6.8K	5%	3W F
R5236	1-215-857-11	METAL OXIDE	10	5%	1W F

REF. NO.	PART NO.	DESCRIPTION			REMARK
R8001	1-249-425-11	CARBON	4.7K	5%	1/4W F
R8002	1-249-431-11	CARBON	15K	5%	1/4W F
R8003	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R8005	1-215-925-11	METAL OXIDE	22K	5%	3W F
R8006	1-260-123-11	CARBON	100K	5%	1/2W
R8007	1-215-925-11	METAL OXIDE	22K	5%	3W F
R8008	1-216-059-00	RES,CHIP	2.7K	5%	1/10W
R8009	1-216-435-11	METAL OXIDE	2.7K	5%	1W F
R8010	1-216-025-00	RES,CHIP	100	5%	1/10W
R8011	1-216-065-00	RES,CHIP	4.7K	5%	1/10W
R8013	1-216-065-00	RES,CHIP	4.7K	5%	1/10W
R8014	1-216-073-00	RES,CHIP	10K	5%	1/10W
R8015	1-216-049-00	RES,CHIP	1K	5%	1/10W
R8017	1-216-073-00	RES,CHIP	10K	5%	1/10W
R8018	1-216-073-00	RES,CHIP	10K	5%	1/10W
R8019	1-215-905-11	METAL OXIDE	10	5%	3W F
R8021	1-216-073-00	RES,CHIP	10K	5%	1/10W
R8022	1-216-097-91	RES,CHIP	100K	5%	1/10W
R8023	1-215-870-11	METAL OXIDE	1.5K	5%	1W F
R8024	1-249-429-11	CARBON	10K	5%	1/4W F
R8026	1-215-925-11	METAL OXIDE	22K	5%	3W F
R8027	1-216-059-00	RES,CHIP	2.7K	5%	1/10W
R8028	1-216-089-00	RES,CHIP	47K	5%	1/10W
R8029	1-216-489-11	METAL OXIDE	27K	5%	3W F
R8030	1-215-925-11	METAL OXIDE	22K	5%	3W F
R8031	1-216-073-00	RES,CHIP	10K	5%	1/10W
R8032	1-216-049-00	RES,CHIP	1K	5%	1/10W
R8033	1-215-925-11	METAL OXIDE	22K	5%	3W F
R8036	1-216-083-00	RES,CHIP	27K	5%	1/10W
R8037	1-216-089-00	RES,CHIP	47K	5%	1/10W
R8038	1-216-393-00	METAL OXIDE	2.2	5%	3W F
R8039	1-216-394-00	METAL OXIDE	2.7	5%	3W F
R8040	1-216-394-00	METAL OXIDE	2.7	5%	3W F
R8041	1-216-488-11	METAL OXIDE	18K	5%	3W F
R8042	1-216-073-00	RES,CHIP	10K	5%	1/10W
R8044	1-216-049-00	RES,CHIP	1K	5%	1/10W
R8046	1-216-025-00	RES,CHIP	100	5%	1/10W
R8049	1-216-037-00	RES,CHIP	330	5%	1/10W
R8050	1-260-099-11	CARBON	1K	5%	1/2W
R8051	1-216-025-00	RES,CHIP	100	5%	1/10W
R8055	1-260-087-11	CARBON	100	5%	1/2W
R8057	1-216-049-00	RES,CHIP	1K	5%	1/10W
R8058	1-216-025-00	RES,CHIP	100	5%	1/10W
R8059	1-216-069-00	RES,CHIP	6.8K	5%	1/10W
R8060	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R8063	1-216-039-00	RES,CHIP	390	5%	1/10W
R8064	1-216-469-11	METAL OXIDE	12	5%	3W F
R8065	1-216-097-91	RES,CHIP	100K	5%	1/10W
R8067	1-216-059-00	RES,CHIP	2.7K	5%	1/10W
R8068	1-216-037-00	RES,CHIP	330	5%	1/10W
R8069	1-216-469-11	METAL OXIDE	12	5%	3W F
R8070	1-260-316-51	CARBON	100	5%	1/2W
R8071	1-216-113-00	RES,CHIP	470K	5%	1/10W
R8072	1-216-073-00	RES,CHIP	10K	5%	1/10W
R8073	1-216-055-00	RES,CHIP	1.8K	5%	1/10W
R8074	1-216-059-00	RES,CHIP	2.7K	5%	1/10W
R8075	1-260-316-51	CARBON	100	5%	1/2W

- The components identified by ⋈ in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

REF. NO.	PART NO.	DESCRIPTION			REMARK
R8076	1-216-105-91	RES,CHIP	220K	5%	1/10W
R8077	1-216-091-00	RES,CHIP	56K	5%	1/10W
R8080	1-216-063-91	RES,CHIP	3.9K	5%	1/10W
R8081	1-216-077-00	RES,CHIP	15K	5%	1/10W
R8082	1-216-073-00	RES,CHIP	10K	5%	1/10W
R8083	1-216-077-00	RES,CHIP	15K	5%	1/10W
R8084	1-216-049-00	RES,CHIP	1K	5%	1/10W
R8085	1-249-377-11	CARBON	0.47	5%	1/4W F
R8086	1-216-049-00	RES,CHIP	1K	5%	1/10W
R8087	1-216-073-00	RES,CHIP	10K	5%	1/10W
R8088	1-216-073-00	RES,CHIP	10K	5%	1/10W
R8090	1-216-067-00	RES,CHIP	5.6K	5%	1/10W
R8091	1-216-067-00	RES,CHIP	5.6K	5%	1/10W
R8092	1-216-073-00	RES,CHIP	10K	5%	1/10W
R8093	1-216-049-00	RES,CHIP	1K	5%	1/10W
R8094	1-216-067-00	RES,CHIP	5.6K	5%	1/10W
R8095	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R8096	1-216-045-00	RES,CHIP	680	5%	1/10W
R8097	1-216-081-00	RES,CHIP	22K	5%	1/10W
R8098	1-216-073-00	RES,CHIP	10K	5%	1/10W
R8099	1-216-059-00	RES,CHIP	2.7K	5%	1/10W
R8100	1-216-097-91	RES,CHIP	100K	5%	1/10W
R8101	1-216-055-00	RES,CHIP	1.8K	5%	1/10W
R8102	1-216-073-00	RES,CHIP	10K	5%	1/10W
R8103	1-216-053-00	RES,CHIP	1.5K	5%	1/10W
R8105	1-216-689-11	RES,CHIP	39K	5%	1/10W
R8106	1-216-089-00	RES,CHIP	47K	5%	1/10W
R8107	1-216-053-00	RES,CHIP	1.5K	5%	1/10W
R8108	1-216-055-00	RES,CHIP	1.8K	5%	1/10W
R8109	1-216-081-00	RES,CHIP	22K	5%	1/10W
R8110	1-216-089-00	RES,CHIP	47K	5%	1/10W
R8111	1-216-041-00	RES,CHIP	470	5%	1/10W
R8112	1-216-077-00	RES,CHIP	15K	5%	1/10W
R8113	1-216-073-00	RES,CHIP	10K	5%	1/10W
R8114	1-216-025-00	RES,CHIP	100	5%	1/10W
R8115	1-216-089-00	RES,CHIP	47K	5%	1/10W
R8116	1-216-097-91	RES,CHIP	100K	5%	1/10W
R8117	1-208-806-11	RES,CHIP	10K	0.50%	1/10W
R8118	1-216-053-00	RES,CHIP	1.5K	5%	1/10W
R8119	1-216-041-00	RES,CHIP	470	5%	1/10W
R8120	1-216-049-00	RES,CHIP	1K	5%	1/10W
R8121	1-249-377-11	CARBON	0.47	5%	1/4W F
R8122	1-216-097-91	RES,CHIP	100K	5%	1/10W
R8123	1-208-822-11	RES,CHIP	47K	0.50%	1/10W
R8125	1-208-822-11	RES,CHIP	47K	0.50%	1/10W
R8126	1-216-081-00	RES,CHIP	22K	5%	1/10W
R8127	1-216-037-00	RES,CHIP	330	5%	1/10W
R8128	1-216-073-00	RES,CHIP	10K	5%	1/10W
R8129	1-208-822-11	RES,CHIP	47K	0.50%	1/10W
R8132	1-208-806-11	RES,CHIP	10K	0.50%	1/10W
R8133	1-208-832-11	RES,CHIP	120K	0.50%	1/10W
R8134	1-208-834-11	RES,CHIP	150K	0.50%	1/10W
R8135	1-208-830-11	RES,CHIP	100K	0.50%	1/10W
R8136	1-216-097-91	RES,CHIP	100K	5%	1/10W
R8137	1-208-806-11	RES,CHIP	10K	0.50%	1/10W
R8138	1-216-025-00	RES,CHIP	100	5%	1/10W
R8139	1-216-117-00	RES,CHIP	680K	5%	1/10W
R8140	1-208-822-11	RES,CHIP	47K	0.50%	1/10W
R8154	1-216-043-91	RES,CHIP	560	5%	1/10W
R8155	1-216-049-00	RES,CHIP	1K	5%	1/10W
R8156	1-214-745-00	METAL	4.7K	1%	1/4W
R8157	1-216-041-00	RES,CHIP	470	5%	1/10W
R8160	1-214-747-00	METAL	5.6K	1%	1/4W
R8161	1-215-423-00	METAL	1.2K	1%	1/4W
R8162	1-214-757-00	METAL	15K	1%	1/4W
R8163	1-214-757-00	METAL	15K	1%	1/4W
R8164	1-214-757-00	METAL	15K	1%	1/4W
R8165	1-214-757-00	METAL	15K	1%	1/4W
R8166	1-208-814-91	RES,CHIP	22K	0.50%	1/10W
R8167	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R8168	1-208-802-11	RES,CHIP	6.8K	0.50%	1/10W
R8170	1-216-097-91	RES,CHIP	100K	5%	1/10W
R8171	1-216-097-91	RES,CHIP	100K	5%	1/10W
R8172	1-216-073-00	RES,CHIP	10K	5%	1/10W
R8173	1-208-812-11	RES,CHIP	18K	0.50%	1/10W
R8174	1-216-025-00	RES,CHIP	100	5%	1/10W
R8175	1-216-073-00	RES,CHIP	10K	5%	1/10W
R8176	1-216-073-00	RES,CHIP	10K	5%	1/10W
R8177	1-216-462-00	METAL OXIDE	8.2K	5%	2W F
R8178	1-215-897-11	METAL OXIDE	6.8K	5%	2W F
R8183	1-260-292-11	CARBON	1	5%	1/2W
R8184	1-216-051-00	RES,CHIP	1.2K	5%	1/10W
R8185	1-216-081-00	RES,CHIP	22K	5%	1/10W
R8190	1-208-798-11	RES,CHIP	4.7K	0.50%	1/10W
R8191	1-208-806-11	RES,CHIP	10K	0.50%	1/10W
R8192	1-208-802-11	RES,CHIP	6.8K	0.50%	1/10W
R8193	1-208-814-91	RES,CHIP	22K	0.50%	1/10W
⋈ R8194 ⚠		CARBON			1/4W
R8195	1-208-812-11	RES,CHIP	18K	0.50%	1/10W
⋈ R8196 ⚠		CARBON			1/4W
R8197	1-260-087-11	CARBON	100	5%	1/2W
R8198	1-214-769-00	METAL	47K	1%	1/4W
R8199	1-260-288-11	CARBON	0.47	5%	1/2W
R8200	1-247-887-00	CARBON	220K	5%	1/4W
R8201	1-216-379-11	METAL OXIDE	6.8	5%	2W F
R8202	1-216-097-91	RES,CHIP	100K	5%	1/10W
R8203	1-216-073-00	RES,CHIP	10K	5%	1/10W
R8204	1-216-081-00	RES,CHIP	22K	5%	1/10W
R8205	1-216-099-00	RES,CHIP	120K	5%	1/10W
R8206	1-216-091-00	RES,CHIP	56K	5%	1/10W
R8207	1-216-073-00	RES,CHIP	10K	5%	1/10W
R8208	1-216-091-00	RES,CHIP	56K	5%	1/10W
R8209	1-216-073-00	RES,CHIP	10K	5%	1/10W
R8210	1-216-097-91	RES,CHIP	100K	5%	1/10W
R8211	1-260-087-11	CARBON	100	5%	1/2W
R8212	1-216-073-00	RES,CHIP	10K	5%	1/10W
R8213	1-216-095-00	RES,CHIP	82K	5%	1/10W
R8214	1-216-097-91	RES,CHIP	100K	5%	1/10W
R8215	1-216-073-00	RES,CHIP	10K	5%	1/10W
R8216	1-216-073-00	RES,CHIP	10K	5%	1/10W
R8217	1-216-067-00	RES,CHIP	5.6K	5%	1/10W
R8218	1-216-093-91	RES,CHIP	68K	5%	1/10W
R8219	1-216-085-00	RES,CHIP	33K	5%	1/10W

Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

• The components identified by ⋈ in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

D HA HB

REF. NO.	PART NO.	DESCRIPTION			REMARK
R8220	1-216-089-00	RES,CHIP	47K	5%	1/10W
⋈ R8231 ⚠		CARBON			1/4W
⋈ R8232 ⚠		CARBON			1/4W
		<SPARK GAP>			
SG8002	1-519-422-11	GAP, SPARK			
		<TRANSFORMER>			
T5001	1-437-209-11	TRANSFORMER, HORIZONTAL DRIVE			
T8001 ⚠	1-437-209-11	TRANSFORMER, HORIZONTAL DRIVE			
T8002 ⚠	1-431-955-11	TRANSFORMER,FERRITE (LOT)			
T8003 ⚠	1-453-285-11	FBT ASSY, NX-4006//X4P			
**********					
* A-1372-590-A		HA BOARD, COMPLETE			
		**********			
		<CAPACITOR>			
C3101	1-136-165-00	FILM	0.1µF	5%	50V
		<CONNECTOR>			
CN3101*	1-564-520-11	PLUG, CONNECTOR	5P		
		<DIODE>			
D3101	8-719-053-43	DIODE SLR-325VCT31			
D3102	8-719-053-43	DIODE SLR-325VCT31			
D3103	8-719-053-43	DIODE SLR-325VCT31			
D3104	8-719-053-43	DIODE SLR-325VCT31			
D3105	8-719-053-43	DIODE SLR-325VCT31			
D3106	8-719-053-43	DIODE SLR-325VCT31			
		<RESISTOR>			
R3101	1-249-411-11	CARBON	330	5%	1/4W
R3102	1-249-411-11	CARBON	330	5%	1/4W
R3103	1-249-411-11	CARBON	330	5%	1/4W
R3104	1-249-411-11	CARBON	330	5%	1/4W
R3105	1-249-411-11	CARBON	330	5%	1/4W
R3106	1-249-411-11	CARBON	330	5%	1/4W
**********					
* A-1372-591-A		HC BOARD, COMPLETE			
		**********			
* 4-069-640-01		HOLDER, OPTICAL BAR			
* 4-388-603-01		GUIDE, LIGHT			

REF. NO.	PART NO.	DESCRIPTION			REMARK
		<CAPACITOR>			
C3301	1-104-664-11	ELECT	47µF	20%	10V
		<CONNECTOR>			
CN3301*	1-564-518-11	PLUG, CONNECTOR 3P			
		<DIODE>			
D3301	8-719-109-89	DIODE RD5.6ESB2			
D3302	8-719-109-89	DIODE RD5.6ESB2			
		<IC>			
IC3301	8-742-088-10	HYBIC SBX1780-51(10)			
		<RESISTOR>			
R3301	1-247-807-31	CARBON	100	5%	1/4W
R3302	1-247-807-31	CARBON	100	5%	1/4W
**********					
* A-1372-592-A		HB BOARD, COMPLETE			
		**********			
		<CAPACITOR>			
C3201	1-137-194-81	FILM	0.47µF	5%	50V
		<CONNECTOR>			
CN3201*	1-564-526-31	PLUG, CONNECTOR 11P			
CN3202*	1-564-518-11	PLUG, CONNECTOR 3P			
		<DIODE>			
D3201	8-719-108-12	DIODE RD9.1EW			
D3202	8-719-108-12	DIODE RD9.1EW			
D3203	8-719-108-12	DIODE RD9.1EW			
D3204	8-719-108-12	DIODE RD9.1EW			
D3205	8-719-108-12	DIODE RD9.1EW			
D3206	8-719-108-12	DIODE RD9.1EW			
		<JACK>			
J3201	1-565-929-11	TERMINAL BLOCK, S 3P (VIDEO 2 IN)			
		<RESISTOR>			
R3201	1-247-804-11	CARBON	75	5%	1/4W
R3202	1-249-436-11	CARBON	39K	5%	1/4W
R3203	1-247-804-11	CARBON	75	5%	1/4W
R3204	1-247-804-11	CARBON	75	5%	1/4W

REF. NO.	PART NO.	DESCRIPTION			REMARK
R3205	1-247-895-91	CARBON	470K	5%	1/4W
R3206	1-247-895-91	CARBON	470K	5%	1/4W
		<SWITCH>			
S3201	1-571-532-21	SWITCH, TACTIL (TV/VIDEO)			
**********					
*	A-1373-719-A	UA BOARD, COMPLETE			
		**********			
	4-069-177-01	SCREW (A),SPECIAL HEXAGON HEAD			
		<CAPACITOR>			
C3511	1-126-964-11	ELECT	10µF	20%	50V
C3512	1-126-964-11	ELECT	10µF	20%	50V
C3513	1-216-295-91	SHORT	0		
C3514	1-216-295-91	SHORT	0		
C3529	1-216-295-91	SHORT	0		
C3530	1-216-295-91	SHORT	0		
C3535	1-164-505-11	CERAMIC CHIP	2.2µF		16V
C3536	1-164-505-11	CERAMIC CHIP	2.2µF		16V
C3537	1-107-823-11	CERAMIC CHIP	0.47µF	10%	16V
C3538	1-164-505-11	CERAMIC CHIP	2.2µF		16V
C3539	1-107-823-11	CERAMIC CHIP	0.47µF	10%	16V
C3540	1-164-505-11	CERAMIC CHIP	2.2µF		16V
C3541	1-164-505-11	CERAMIC CHIP	2.2µF		16V
C3542	1-216-295-91	SHORT	0		
C3543	1-164-505-11	CERAMIC CHIP	2.2µF		16V
C3544	1-107-823-11	CERAMIC CHIP	0.47µF	10%	16V
C3545	1-107-823-11	CERAMIC CHIP	0.47µF	10%	16V
C3546	1-216-295-91	SHORT	0		
C3547	1-126-964-11	ELECT	10µF	20%	50V
C3548	1-126-964-11	ELECT	10µF	20%	50V
		<CONNECTOR>			
CN3503*	1-564-527-11	PLUG, CONNECTOR	12P		
CN3505*	1-564-525-11	PLUG, CONNECTOR	10P		
CN3506	1-785-815-11	CONNECTOR, EVC			
CN3507*	1-564-519-11	PLUG, CONNECTOR	4P		
CN3508*	1-564-522-11	PLUG, CONNECTOR	7P		
CN3510	1-695-915-11	TAB (CONTACT)			
CN3511	1-695-915-11	TAB (CONTACT)			
		<DIODE>			
D3508	8-719-977-28	DIODE DTZ10B			
D3509	8-719-977-28	DIODE DTZ10B			
D3510	8-719-977-28	DIODE DTZ10B			
D3511	8-719-977-28	DIODE DTZ10B			
D3524	8-719-977-28	DIODE DTZ10B			
D3525	8-719-977-28	DIODE DTZ10B			
D3527	8-719-977-28	DIODE DTZ10B			

REF. NO.	PART NO.	DESCRIPTION			REMARK
		<FILTER>			
FL3501	1-233-736-21	FILTER, EMI			
FL3502	1-233-736-21	FILTER, EMI			
FL3503	1-233-736-21	FILTER, EMI			
FL3504	1-234-017-21	FERRITE	37µH		
FL3505	1-234-017-21	FERRITE	37µH		
FL3506	1-234-017-21	FERRITE	37µH		
FL3507	1-233-736-21	FILTER, EMI			
FL3508	1-233-736-21	FILTER, EMI			
FL3509	1-233-736-21	FILTER, EMI			
FL3510	1-233-736-21	FILTER, EMI			
FL3511	1-233-736-21	FILTER, EMI			
FL3512	1-233-736-21	FILTER, EMI			
		<IC>			
IC3503	8-759-547-38	IC LM6171BIMX			
IC3504	8-759-547-38	IC LM6171BIMX			
IC3505	8-759-547-38	IC LM6171BIMX			
		<COIL>			
L3501	1-414-234-22	INDUCTOR CHIP	0µH		
L3502	1-414-234-22	INDUCTOR CHIP	0µH		
		<TRANSISTOR>			
Q3511	1-801-806-11	TRANSISTOR DTC144EKA-T146			
Q3512	8-729-422-27	TRANSISTOR 2SD601A-Q			
Q3515	8-729-422-27	TRANSISTOR 2SD601A-Q			
Q3516	8-729-216-22	TRANSISTOR 2SA1162-G			
Q3517	8-729-422-27	TRANSISTOR 2SD601A-Q			
Q3518	8-729-422-27	TRANSISTOR 2SD601A-Q			
Q3519	8-729-216-22	TRANSISTOR 2SA1162-G			
Q3520	8-729-216-22	TRANSISTOR 2SA1162-G			
Q3521	8-729-422-27	TRANSISTOR 2SD601A-Q			
Q3522	8-729-422-27	TRANSISTOR 2SD601A-Q			
Q3523	8-729-216-22	TRANSISTOR 2SA1162-G			
Q3524	8-729-216-22	TRANSISTOR 2SA1162-G			
Q3525	8-729-422-27	TRANSISTOR 2SD601A-Q			
Q3526	8-729-422-27	TRANSISTOR 2SD601A-Q			
Q3527	8-729-216-22	TRANSISTOR 2SA1162-G			
		<RESISTOR>			
R3537	1-216-113-00	RES,CHIP	470K	5%	1/10W
R3538	1-216-113-00	RES,CHIP	470K	5%	1/10W
R3540	1-216-025-91	RES,CHIP	100	5%	1/10W
R3550	1-216-025-91	RES,CHIP	100	5%	1/10W
R3578	1-216-009-91	RES,CHIP	22	5%	1/10W
R3579	1-216-073-00	RES,CHIP	10K	5%	1/10W
R3580	1-216-025-91	RES,CHIP	100	5%	1/10W
R3581	1-216-022-00	RES,CHIP	75	5%	1/10W
R3582	1-216-022-00	RES,CHIP	75	5%	1/10W
R3583	1-216-022-00	RES,CHIP	75	5%	1/10W
R3586	1-216-025-91	RES,CHIP	100	5%	1/10W
R3587	1-216-025-91	RES,CHIP	100	5%	1/10W

REF. NO.	PART NO.	DESCRIPTION			REMARK
R3591	1-216-689-11	RES,CHIP	39K	5%	1/10W
R3596	1-216-113-00	RES,CHIP	470K	5%	1/10W
R3598	1-216-022-00	RES,CHIP	75	5%	1/10W
R3599	1-216-022-00	RES,CHIP	75	5%	1/10W
R3600	1-216-022-00	RES,CHIP	75	5%	1/10W
R3601	1-216-022-00	RES,CHIP	75	5%	1/10W
R3602	1-216-022-00	RES,CHIP	75	5%	1/10W
R3603	1-216-022-00	RES,CHIP	75	5%	1/10W
R3604	1-216-105-91	RES,CHIP	220K	5%	1/10W
R3605	1-216-089-91	RES,CHIP	47K	5%	1/10W
R3606	1-216-047-91	RES,CHIP	820	5%	1/10W
R3607	1-216-047-91	RES,CHIP	820	5%	1/10W
R3608	1-216-047-91	RES,CHIP	820	5%	1/10W
R3609	1-216-015-00	RES,CHIP	39	5%	1/10W
R3610	1-216-047-91	RES,CHIP	820	5%	1/10W
R3611	1-216-047-91	RES,CHIP	820	5%	1/10W
R3612	1-216-047-91	RES,CHIP	820	5%	1/10W
R3613	1-216-015-00	RES,CHIP	39	5%	1/10W
R3614	1-216-047-91	RES,CHIP	820	5%	1/10W
R3615	1-216-047-91	RES,CHIP	820	5%	1/10W
R3616	1-216-047-91	RES,CHIP	820	5%	1/10W
R3617	1-216-015-00	RES,CHIP	39	5%	1/10W
R3618	1-216-001-00	RES,CHIP	10	5%	1/10W
R3619	1-216-049-91	RES,CHIP	1K	5%	1/10W
R3620	1-216-049-91	RES,CHIP	1K	5%	1/10W
R3621	1-216-015-00	RES,CHIP	39	5%	1/10W
R3622	1-216-001-00	RES,CHIP	10	5%	1/10W
R3623	1-216-049-91	RES,CHIP	1K	5%	1/10W
R3624	1-216-049-91	RES,CHIP	1K	5%	1/10W
R3625	1-216-015-00	RES,CHIP	39	5%	1/10W
R3626	1-216-001-00	RES,CHIP	10	5%	1/10W
R3627	1-216-049-91	RES,CHIP	1K	5%	1/10W
R3628	1-216-049-91	RES,CHIP	1K	5%	1/10W
R3629	1-216-015-00	RES,CHIP	39	5%	1/10W
R3651	1-216-047-91	RES,CHIP	820	5%	1/10W
R3652	1-216-047-91	RES,CHIP	820	5%	1/10W
R3653	1-216-047-91	RES,CHIP	820	5%	1/10W
R3654	1-216-089-91	RES,CHIP	47K	5%	1/10W

****

* A-1373-720-A UB BOARD, COMPLETE
****

<CAPACITOR>

C3501	1-126-964-11	ELECT	10µF	20%	50V
C3502	1-163-031-11	CERAMIC CHIP	0.01µF		50V
C3503	1-163-009-11	CERAMIC CHIP	0.001µF	10%	50V
C3504	1-163-009-11	CERAMIC CHIP	0.001µF	10%	50V
C3515	1-126-960-11	ELECT	1µF	20%	50V
C3516	1-126-960-11	ELECT	1µF	20%	50V
C3518	1-163-031-11	CERAMIC CHIP	0.01µF		50V
C3519	1-126-964-11	ELECT	10µF	20%	50V
C3522	1-126-964-11	ELECT	10µF	20%	50V
C3523	1-126-964-11	ELECT	10µF	20%	50V
C3524	1-216-295-91	SHORT	0		
C3525	1-216-295-91	SHORT	0		
C3526	1-163-009-11	CERAMIC CHIP	0.001µF	10%	50V
C3527	1-163-009-11	CERAMIC CHIP	0.001µF	10%	50V
C3528	1-163-009-11	CERAMIC CHIP	0.001µF	10%	50V
C3534	1-126-960-11	ELECT	1µF	20%	50V
C3549	1-104-664-11	ELECT	47µF	20%	25V
C3550	1-104-664-11	ELECT	47µF	20%	25V
C3551	1-104-664-11	ELECT	47µF	20%	25V
C3552	1-107-823-11	CERAMIC CHIP	0.47µF	10%	16V
C3553	1-107-823-11	CERAMIC CHIP	0.47µF	10%	16V
C3554	1-216-295-91	SHORT	0		
C3555	1-163-031-11	CERAMIC CHIP	0.01µF		50V
C3556	1-126-964-11	ELECT	10µF	20%	50V

<CONNECTOR>

CN3501*	1-564-523-11	PLUG, CONNECTOR	8P
CN3502*	1-564-524-11	PLUG, CONNECTOR	9P
CN3504*	1-564-526-11	PLUG, CONNECTOR	11P
CN3509*	1-564-522-11	PLUG, CONNECTOR	7P

<DIODE>

D3501	8-719-158-15	DIODE	RD5.6SB
D3502	8-719-158-15	DIODE	RD5.6SB
D3503	8-719-158-15	DIODE	RD5.6SB
D3504	8-719-158-15	DIODE	RD5.6SB
D3505	8-719-404-50	DIODE	MA111-TX
D3517	8-719-977-28	DIODE	DTZ10B
D3518	8-719-977-28	DIODE	DTZ10B
D3519	8-719-977-28	DIODE	DTZ10B
D3520	8-719-977-28	DIODE	DTZ10B
D3521	8-719-977-28	DIODE	DTZ10B
D3522	8-719-977-28	DIODE	DTZ10B
D3532	8-719-404-50	DIODE	MA111-TX
D3533	8-719-404-50	DIODE	MA111-TX
D3534	8-719-977-28	DIODE	DTZ10B
D3535	8-719-977-28	DIODE	DTZ10B
D3536	8-719-977-28	DIODE	DTZ10B

<IC>

IC3501	8-759-470-63	IC NJM2145M-TE2
IC3502	8-759-352-95	IC BA3129F-E2

<JACK>

J3501	1-764-143-11	JACK 3P (SIRCS OUT/ S-LINK IN 1)
J3502	1-764-143-11	JACK 3P (SIRCS OUT/ S-LINK IN 3)
J3503	1-764-143-11	JACK 3P (SIRCS OUT/ S-LINK IN 4)
J3504	1-764-143-11	JACK 3P (SIRCS OUT/ S-LINK OUT)
J3509	1-695-444-11	PIN JACK BLOCK 3P (VIDEO 5 (HD) IN)
J3510	1-565-838-11	JACK BLOCK, PIN 2P (VIDEO 5 (HD) IN-AUDIO)
J3511	1-565-838-31	JACK BLOCK, PIN 2P (VIDEO 5 (HD) IN-SYNC)

REF. NO.	PART NO.	DESCRIPTION			REMARK
		<COIL>			
L3503	1-414-234-22	INDUCTOR CHIP 0µH			
		<TRANSISTOR>			
Q3501	8-729-216-22	TRANSISTOR 2SA1162-G			
Q3502	1-801-806-11	TRANSISTOR DTC144EKA-T146			
Q3503	8-729-216-22	TRANSISTOR 2SA1162-G			
Q3504	1-801-806-11	TRANSISTOR DTC144EKA-T146			
Q3505	8-729-216-22	TRANSISTOR 2SA1162-G			
Q3507	1-801-806-11	TRANSISTOR DTC144EKA-T146			
Q3508	8-729-216-22	TRANSISTOR 2SA1162-G			
Q3509	8-729-422-27	TRANSISTOR 2SD601A-Q			
Q3510	8-729-422-27	TRANSISTOR 2SD601A-Q			
Q3513	8-729-216-22	TRANSISTOR 2SA1162-G			
Q3514	1-801-806-11	TRANSISTOR DTC144EKA-T146			
Q3528	8-729-216-22	TRANSISTOR 2SA1162-G			
Q3529	8-729-422-27	TRANSISTOR 2SD601A-Q			
Q3530	8-729-422-27	TRANSISTOR 2SD601A-Q			
Q3531	8-729-216-22	TRANSISTOR 2SA1162-G			
Q3532	8-729-216-22	TRANSISTOR 2SA1162-G			
Q3533	8-729-422-27	TRANSISTOR 2SD601A-Q			
Q3534	8-729-422-27	TRANSISTOR 2SD601A-Q			
Q3535	8-729-216-22	TRANSISTOR 2SA1162-G			
Q3536	8-729-216-22	TRANSISTOR 2SA1162-G			
Q3537	8-729-422-27	TRANSISTOR 2SD601A-Q			
Q3538	8-729-422-27	TRANSISTOR 2SD601A-Q			
Q3539	8-729-216-22	TRANSISTOR 2SA1162-G			
		<RESISTOR>			
R3501	1-216-009-91	RES,CHIP	22	5%	1/10W
R3503	1-216-009-91	RES,CHIP	22	5%	1/10W
R3505	1-216-009-91	RES,CHIP	22	5%	1/10W
R3507	1-216-009-91	RES,CHIP	22	5%	1/10W
R3509	1-216-073-00	RES,CHIP	10K	5%	1/10W
R3510	1-216-097-91	RES,CHIP	100K	5%	1/10W
R3511	1-216-073-00	RES,CHIP	10K	5%	1/10W
R3513	1-216-073-00	RES,CHIP	10K	5%	1/10W
R3515	1-216-025-91	RES,CHIP	100	5%	1/10W
R3516	1-216-025-91	RES,CHIP	100	5%	1/10W
R3517	1-216-025-91	RES,CHIP	100	5%	1/10W
R3518	1-216-025-91	RES,CHIP	100	5%	1/10W
R3519	1-216-025-91	RES,CHIP	100	5%	1/10W
R3520	1-216-025-91	RES,CHIP	100	5%	1/10W
R3521	1-216-025-91	RES,CHIP	100	5%	1/10W
R3522	1-216-025-91	RES,CHIP	100	5%	1/10W
R3523	1-216-025-91	RES,CHIP	100	5%	1/10W
R3541	1-216-095-00	RES,CHIP	82K	5%	1/10W
R3542	1-216-095-00	RES,CHIP	82K	5%	1/10W
R3543	1-216-025-91	RES,CHIP	100	5%	1/10W
R3544	1-216-095-00	RES,CHIP	82K	5%	1/10W
R3545	1-216-097-91	RES,CHIP	100K	5%	1/10W
R3546	1-216-095-00	RES,CHIP	82K	5%	1/10W
R3547	1-216-097-91	RES,CHIP	100K	5%	1/10W
R3548	1-216-025-91	RES,CHIP	100	5%	1/10W
R3551	1-216-025-91	RES,CHIP	100	5%	1/10W
R3552	1-216-097-91	RES,CHIP	100K	5%	1/10W
R3553	1-216-097-91	RES,CHIP	100K	5%	1/10W
R3554	1-216-025-91	RES,CHIP	100	5%	1/10W
R3557	1-216-097-91	RES,CHIP	100K	5%	1/10W
R3563	1-216-113-00	RES,CHIP	470K	5%	1/10W
R3564	1-216-113-00	RES,CHIP	470K	5%	1/10W
R3565	1-216-089-91	RES,CHIP	47K	5%	1/10W
R3567	1-216-025-91	RES,CHIP	100	5%	1/10W
R3568	1-216-093-91	RES,CHIP	68K	5%	1/10W
R3569	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R3570	1-216-073-00	RES,CHIP	10K	5%	1/10W
R3572	1-216-025-91	RES,CHIP	100	5%	1/10W
R3573	1-216-041-00	RES,CHIP	470	5%	1/10W
R3574	1-216-089-91	RES,CHIP	47K	5%	1/10W
R3577	1-216-073-00	RES,CHIP	10K	5%	1/10W
R3592	1-216-105-91	RES,CHIP	220K	5%	1/10W
R3593	1-216-097-91	RES,CHIP	100K	5%	1/10W
R3594	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R3595	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R3630	1-216-022-00	RES,CHIP	75	5%	1/10W
R3631	1-216-001-00	RES,CHIP	10	5%	1/10W
R3632	1-216-022-00	RES,CHIP	75	5%	1/10W
R3633	1-216-001-00	RES,CHIP	10	5%	1/10W
R3634	1-216-022-00	RES,CHIP	75	5%	1/10W
R3635	1-216-001-00	RES,CHIP	10	5%	1/10W
R3636	1-216-089-91	RES,CHIP	47K	5%	1/10W
R3637	1-216-089-91	RES,CHIP	47K	5%	1/10W
R3638	1-216-049-91	RES,CHIP	1K	5%	1/10W
R3639	1-216-049-91	RES,CHIP	1K	5%	1/10W
R3640	1-216-015-00	RES,CHIP	39	5%	1/10W
R3641	1-216-089-91	RES,CHIP	47K	5%	1/10W
R3642	1-216-089-91	RES,CHIP	47K	5%	1/10W
R3643	1-216-049-91	RES,CHIP	1K	5%	1/10W
R3644	1-216-049-91	RES,CHIP	1K	5%	1/10W
R3645	1-216-015-00	RES,CHIP	39	5%	1/10W
R3646	1-216-089-91	RES,CHIP	47K	5%	1/10W
R3647	1-216-089-91	RES,CHIP	47K	5%	1/10W
R3648	1-216-049-91	RES,CHIP	1K	5%	1/10W
R3649	1-216-049-91	RES,CHIP	1K	5%	1/10W
R3650	1-216-015-00	RES,CHIP	39	5%	1/10W
R3667	1-216-295-91	SHORT	0		
R3668	1-216-295-91	SHORT	0		
R3669	1-216-295-91	SHORT	0		
		<SWITCH>			
S3501	1-571-729-11	SWITCH, SLIDE (RGB/YPBPR)			

****

REF. NO.	PART NO.	DESCRIPTION			REMARK
	* A-1380-573-A	K BOARD, COMPLETE			
		**********			
	4-382-854-11	SCREW (M3X10), P, SW (+)			
		<CAPACITOR>			
C2103	1-104-664-11	ELECT	47µF	20%	25V
C2104	1-104-664-11	ELECT	47µF	20%	25V
C2105	1-104-664-11	ELECT	47µF	20%	25V
C2106	1-104-664-11	ELECT	47µF	20%	25V
C2107	1-104-664-11	ELECT	47µF	20%	25V
C2108	1-104-664-11	ELECT	47µF	20%	25V
C2111	1-164-161-11	CERAMIC CHIP	0.0022µF	10%	50V
C2112	1-164-161-11	CERAMIC CHIP	0.0022µF	10%	50V
C2113	1-164-161-11	CERAMIC CHIP	0.0022µF	10%	50V
C2114	1-164-161-11	CERAMIC CHIP	0.0022µF	10%	50V
C2115	1-164-161-11	CERAMIC CHIP	0.0022µF	10%	50V
C2116	1-164-161-11	CERAMIC CHIP	0.0022µF	10%	50V
C2117	1-104-664-11	ELECT	47µF	20%	25V
C2118	1-130-495-00	FILM	0.1µF	5%	50V
C2121	1-126-965-11	ELECT	22µF	20%	50V
C2122	1-136-177-00	FILM	1µF	5%	50V
C2123	1-137-370-11	FILM	0.01µF	5%	50V
C2124	1-137-365-11	FILM	0.0015µF	5%	50V
C2125	1-137-375-11	FILM	0.068µF	5%	50V
C2126	1-130-495-00	FILM	0.1µF	5%	50V
C2127	1-130-495-00	FILM	0.1µF	5%	50V
C2128	1-137-375-11	FILM	0.068µF	5%	50V
C2129	1-137-370-11	FILM	0.01µF	5%	50V
C2130	1-137-434-11	FILM	0.0018µF	5%	50V
C2131	1-130-495-00	FILM	0.1µF	5%	50V
C2132	1-130-495-00	FILM	0.1µF	5%	50V
C2133	1-130-495-00	FILM	0.1µF	5%	50V
C2134	1-137-365-11	FILM	0.0015µF	5%	50V
C2135	1-136-356-11	FILM	470PF	5%	50V
C2136	1-136-357-11	FILM	680PF	5%	50V
C2137	1-137-437-11	FILM	0.0056µF	5%	50V
C2138	1-137-374-11	FILM	0.047µF	5%	50V
C2139	1-136-175-00	FILM	0.68µF	5%	50V
C2140	1-137-378-11	FILM	0.22µF	5%	50V
C2141	1-137-378-11	FILM	0.22µF	5%	50V
C2142	1-126-963-11	ELECT	4.7µF	20%	50V
C2143	1-126-963-11	ELECT	4.7µF	20%	50V
C2144	1-137-378-11	FILM	0.22µF	5%	50V
C2145	1-137-378-11	FILM	0.22µF	5%	50V
C2146	1-130-495-00	FILM	0.1µF	5%	50V
C2147	1-137-374-11	FILM	0.047µF	5%	50V
C2148	1-137-374-11	FILM	0.047µF	5%	50V
C2149	1-130-495-00	FILM	0.1µF	5%	50V
C2150	1-130-495-00	FILM	0.1µF	5%	50V
C2151	1-137-372-11	FILM	0.022µF	5%	50V
C2152	1-137-372-11	FILM	0.022µF	5%	50V
C2153	1-130-495-00	FILM	0.1µF	5%	50V
C2154	1-136-357-11	FILM	680PF	5%	50V
C2155	1-130-495-00	FILM	0.1µF	5%	50V
C2156	1-130-495-00	FILM	0.1µF	5%	50V
C2157	1-126-965-11	ELECT	22µF	20%	50V
C2158	1-126-964-11	ELECT	10µF	20%	50V
C2159	1-137-437-11	FILM	0.0056µF	5%	50V
C2160	1-128-549-11	ELECT	3300µF	20%	35V
C2161	1-128-549-11	ELECT	3300µF	20%	35V
C2162	1-130-495-00	FILM	0.1µF	5%	50V
C2163	1-130-495-00	FILM	0.1µF	5%	50V
C2164	1-107-698-11	ELECT	10µF	20%	25V
C2165	1-107-698-11	ELECT	10µF	20%	25V
C2166	1-126-965-11	ELECT	22µF	20%	50V
C2167	1-126-935-11	ELECT	470µF	20%	16V
C2168	1-126-933-11	ELECT	100µF	20%	16V
C2169	1-136-357-11	FILM	680PF	5%	50V
C2170	1-130-495-00	FILM	0.1µF	5%	50V
C2171	1-130-495-00	FILM	0.1µF	5%	50V
C2172	1-104-664-11	ELECT	47µF	20%	25V
C2173	1-104-664-11	ELECT	47µF	20%	25V
C2174	1-126-933-11	ELECT	100µF	20%	16V
C2176	1-164-161-11	CERAMIC CHIP	0.0022µF	10%	50V
C2177	1-164-161-11	CERAMIC CHIP	0.0022µF	10%	50V
C2178	1-164-161-11	CERAMIC CHIP	0.0022µF	10%	50V
C2301	1-126-960-11	ELECT	1µF	20%	50V
C2302	1-126-960-11	ELECT	1µF	20%	50V
C2303	1-126-965-11	ELECT	22µF	20%	50V
C2304	1-163-014-00	CERAMIC CHIP	0.0027µF	5%	50V
C2305	1-163-014-00	CERAMIC CHIP	0.0027µF	5%	50V
C2306	1-126-961-11	ELECT	2.2µF	20%	50V
C2307	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C2308	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C2309	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C2310	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C2311	1-126-961-11	ELECT	2.2µF	20%	50V
C2312	1-126-965-11	ELECT	22µF	20%	50V
C2313	1-163-014-00	CERAMIC CHIP	0.0027µF	5%	50V
C2314	1-163-014-00	CERAMIC CHIP	0.0027µF	5%	50V
C2315	1-126-961-11	ELECT	2.2µF	20%	50V
C2316	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C2317	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C2318	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C2319	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C2320	1-126-961-11	ELECT	2.2µF	20%	50V
C2321	1-107-698-11	ELECT	10µF	20%	25V
C2322	1-107-698-11	ELECT	10µF	20%	25V
C2323	1-107-698-11	ELECT	10µF	20%	25V
C2324	1-107-698-11	ELECT	10µF	20%	25V
C2325	1-126-964-11	ELECT	10µF	20%	50V
C2326	1-126-964-11	ELECT	10µF	20%	50V
C2327	1-104-664-11	ELECT	47µF	20%	25V
C2328	1-104-664-11	ELECT	47µF	20%	25V
C2329	1-104-664-11	ELECT	47µF	20%	25V
C2601	1-126-960-11	ELECT	1µF	20%	50V
C2602	1-126-964-11	ELECT	10µF	20%	50V
C2605	1-126-964-11	ELECT	10µF	20%	50V
C2606	1-130-495-00	FILM	0.1µF	5%	50V
C2607	1-130-495-00	FILM	0.1µF	5%	50V
C2608	1-126-960-11	ELECT	1µF	20%	50V
C2609	1-130-495-00	FILM	0.1µF	5%	50V

REF. NO.	PART NO.	DESCRIPTION			REMARK
C2610	1-130-495-00	FILM	0.1µF	5%	50V
C2611	1-130-495-00	FILM	0.1µF	5%	50V
C2612	1-126-960-11	ELECT	1µF	20%	50V
C2613	1-126-960-11	ELECT	1µF	20%	50V
C2614	1-126-960-11	ELECT	1µF	20%	50V
C2615	1-126-964-11	ELECT	10µF	20%	50V
C2617	1-130-495-00	FILM	0.1µF	5%	50V
C2618	1-130-495-00	FILM	0.1µF	5%	50V
C2619	1-130-495-00	FILM	0.1µF	5%	50V
C2620	1-126-963-11	ELECT	4.7µF	20%	50V
C2621	1-126-960-11	ELECT	1µF	20%	50V
C2622	1-130-495-00	FILM	0.1µF	5%	50V
C2623	1-126-964-11	ELECT	10µF	20%	50V
C2624	1-126-964-11	ELECT	10µF	20%	50V
C2625	1-104-664-11	ELECT	47µF	20%	25V
C2626	1-104-664-11	ELECT	47µF	20%	25V
C2627	1-130-495-00	FILM	0.1µF	5%	50V
C2628	1-130-495-00	FILM	0.1µF	5%	50V
C2631	1-104-665-11	ELECT	100µF	20%	25V
C2632	1-104-665-11	ELECT	100µF	20%	25V
C2633	1-107-718-91	ELECT	100µF	20%	50V
C2801	1-126-960-11	ELECT	1µF	20%	50V
C2802	1-126-960-11	ELECT	1µF	20%	50V
C2803	1-126-964-11	ELECT	10µF	20%	50V
C2804	1-126-964-11	ELECT	10µF	20%	50V

<CONNECTOR>

CN2101*	1-691-757-11	PIN, CONNECTOR (PC BOARD)		8P
CN2102*	1-564-510-11	PLUG, CONNECTOR	7P	
CN2103*	1-564-513-11	PLUG, CONNECTOR	10P	
CN2601*	1-564-507-11	PLUG, CONNECTOR	4P	
CN2602*	1-691-135-11	PIN, CONNECTOR (PC BOARD)		4P
CN2603*	1-691-134-11	PIN, CONNECTOR (PC BOARD)		2P

<DIODE>

D2101	8-719-404-50	DIODE	MA111-TX
D2102	8-719-404-50	DIODE	MA111-TX
D2103	8-719-404-50	DIODE	MA111-TX
D2104	8-719-404-50	DIODE	MA111-TX
D2105	8-719-404-50	DIODE	MA111-TX
D2106	8-719-404-50	DIODE	MA111-TX
D2107	8-719-404-50	DIODE	MA111-TX
D2108	8-719-404-50	DIODE	MA111-TX
D2109	8-719-404-50	DIODE	MA111-TX
D2110	8-719-404-50	DIODE	MA111-TX
D2111	8-719-404-50	DIODE	MA111-TX
D2112	8-719-404-50	DIODE	MA111-TX
D2113	8-719-977-28	DIODE	DTZ10B
D2114	8-719-977-28	DIODE	DTZ10B
D2115	8-719-977-28	DIODE	DTZ10B
D2116	8-719-404-50	DIODE	MA111-TX
D2301	8-719-977-28	DIODE	DTZ10B
D2302	8-719-977-28	DIODE	DTZ10B
D2303	8-719-977-28	DIODE	DTZ10B
D2304	8-719-977-28	DIODE	DTZ10B
D2601	8-719-404-50	DIODE	MA111-TX
D2602	8-719-402-92	DIODE	MA3220M-TX
D2603	8-719-402-92	DIODE	MA3220M-TX
D2604	8-719-402-92	DIODE	MA3220M-TX
D2605	8-719-402-92	DIODE	MA3220M-TX
D2606	8-719-402-92	DIODE	MA3220M-TX
D2607	8-719-402-92	DIODE	MA3220M-TX
D2608	8-719-402-92	DIODE	MA3220M-TX
D2609	8-719-402-92	DIODE	MA3220M-TX
D2610	8-719-402-92	DIODE	MA3220M-TX
D2611	8-719-404-50	DIODE	MA111-TX
D2612	8-719-404-50	DIODE	MA111-TX
D2613	8-719-404-50	DIODE	MA111-TX
D2614	8-719-402-92	DIODE	MA3220M-TX
D2615	8-719-402-92	DIODE	MA3220M-TX
D2616	8-719-402-92	DIODE	MA3220M-TX
D2617	8-719-402-92	DIODE	MA3220M-TX
D2618	8-719-404-50	DIODE	MA111-TX
D2620	8-719-402-92	DIODE	MA3220M-TX
D2621	8-719-977-28	DIODE	DTZ10B
D2622	8-719-977-28	DIODE	DTZ10B
D2623	8-719-977-28	DIODE	DTZ10B
D2624	8-719-977-28	DIODE	DTZ10B
D2801	8-719-400-75	DIODE	MA3091
D2802	8-719-400-75	DIODE	MA3091
D2803	8-719-400-75	DIODE	MA3091
D2804	8-719-400-75	DIODE	MA3091
D2805	8-719-400-75	DIODE	MA3091
D2806	8-719-400-75	DIODE	MA3091
D2807	8-719-400-75	DIODE	MA3091
D2808	8-719-400-75	DIODE	MA3091

<IC>

IC2102	8-759-231-53	IC	TA7805S
IC2103	8-759-198-03	IC	PQ09RF21
IC2104	8-759-231-58	IC	TA7812S
IC2105	8-759-544-37	IC	NJW1103FC3
IC2301	8-759-634-51	IC	M5218AP
IC2302	8-759-544-72	IC	TDA7312
IC2303	8-759-544-72	IC	TDA7312
IC2601	8-759-190-89	IC	TDA7265
IC2602	8-759-072-99	IC	TDA2052
IC2603	8-759-190-89	IC	TDA7265

<JACK>

J2601	1-785-083-11	JACK BLOCK, PIN 2P (AUDIO OUT L)
J2602	1-785-083-21	JACK BLOCK, PIN 2P (AUDIO OUT R)

<TRANSISTOR>

Q2101	8-729-422-27	TRANSISTOR	2SD601A-Q
Q2102	8-729-422-27	TRANSISTOR	2SD601A-Q
Q2103	8-729-216-22	TRANSISTOR	2SA1162-G
Q2104	8-729-216-22	TRANSISTOR	2SA1162-G
Q2105	8-729-422-27	TRANSISTOR	2SD601A-Q

REF. NO.	PART NO.	DESCRIPTION			REMARK
Q2601	8-729-422-27	TRANSISTOR	2SD601A-Q		
Q2602	8-729-422-27	TRANSISTOR	2SD601A-Q		
Q2603	8-729-216-22	TRANSISTOR	2SA1162-G		
Q2604	8-729-422-27	TRANSISTOR	2SD601A-Q		
Q2605	8-729-422-27	TRANSISTOR	2SD601A-Q		
Q2606	8-729-422-27	TRANSISTOR	2SD601A-Q		
Q2607	8-729-422-27	TRANSISTOR	2SD601A-Q		
Q2608	8-729-422-27	TRANSISTOR	2SD601A-Q		
Q2609	8-729-422-27	TRANSISTOR	2SD601A-Q		
Q2610	8-729-216-22	TRANSISTOR	2SA1162-G		
Q2801	8-729-422-27	TRANSISTOR	2SD601A-Q		
Q2802	8-729-422-27	TRANSISTOR	2SD601A-Q		
Q2803	8-729-422-27	TRANSISTOR	2SD601A-Q		
Q2804	8-729-422-27	TRANSISTOR	2SD601A-Q		
Q2805	8-729-422-27	TRANSISTOR	2SD601A-Q		
Q2806	8-729-422-27	TRANSISTOR	2SD601A-Q		
		<RESISTOR>			
R2104	1-216-477-11	METAL OXIDE	270	5%	3W F
R2105	1-215-912-11	METAL OXIDE	150	5%	3W F
R2106	1-216-295-91	SHORT	0		
R2107	1-215-912-11	METAL OXIDE	150	5%	3W F
R2109	1-216-073-00	RES,CHIP	10K	5%	1/10W
R2110	1-216-081-00	RES,CHIP	22K	5%	1/10W
R2111	1-216-025-91	RES,CHIP	100	5%	1/10W
R2112	1-216-025-91	RES,CHIP	100	5%	1/10W
R2113	1-216-025-91	RES,CHIP	100	5%	1/10W
R2114	1-216-121-91	RES,CHIP	1M	5%	1/10W
R2115	1-216-089-91	RES,CHIP	47K	5%	1/10W
R2116	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R2117	1-216-089-91	RES,CHIP	47K	5%	1/10W
R2118	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R2119	1-216-081-00	RES,CHIP	22K	5%	1/10W
R2120	1-216-081-00	RES,CHIP	22K	5%	1/10W
R2121	1-216-109-00	RES,CHIP	330K	5%	1/10W
R2122	1-216-089-91	RES,CHIP	47K	5%	1/10W
R2123	1-216-077-00	RES,CHIP	15K	5%	1/10W
R2124	1-216-077-00	RES,CHIP	15K	5%	1/10W
R2125	1-216-081-00	RES,CHIP	22K	5%	1/10W
R2126	1-216-081-00	RES,CHIP	22K	5%	1/10W
R2127	1-216-129-00	RES,CHIP	2.2M	5%	1/10W
R2128	1-216-097-91	RES,CHIP	100K	5%	1/10W
R2129	1-216-105-91	RES,CHIP	220K	5%	1/10W
R2133	1-216-025-91	RES,CHIP	100	5%	1/10W
R2134	1-216-025-91	RES,CHIP	100	5%	1/10W
R2135	1-216-025-91	RES,CHIP	100	5%	1/10W
R2136	1-216-025-91	RES,CHIP	100	5%	1/10W
R2137	1-216-049-91	RES,CHIP	1K	5%	1/10W
R2138	1-216-049-91	RES,CHIP	1K	5%	1/10W
R2139	1-216-081-00	RES,CHIP	22K	5%	1/10W
R2140	1-216-081-00	RES,CHIP	22K	5%	1/10W
R2141	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R2142	1-216-073-00	RES,CHIP	10K	5%	1/10W
R2143	1-216-025-91	RES,CHIP	100	5%	1/10W
R2144	1-216-077-00	RES,CHIP	15K	5%	1/10W
R2145	1-216-089-91	RES,CHIP	47K	5%	1/10W
R2146	1-216-077-00	RES,CHIP	15K	5%	1/10W
R2147	1-216-129-00	RES,CHIP	2.2M	5%	1/10W
R2148	1-216-077-00	RES,CHIP	15K	5%	1/10W
R2149	1-216-077-00	RES,CHIP	15K	5%	1/10W
R2164	1-216-071-00	RES,CHIP	8.2K	5%	1/10W
R2165	1-216-071-00	RES,CHIP	8.2K	5%	1/10W
R2166	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R2167	1-216-109-00	RES,CHIP	330K	5%	1/10W
R2301	1-216-089-91	RES,CHIP	47K	5%	1/10W
R2302	1-216-089-91	RES,CHIP	47K	5%	1/10W
R2303	1-216-075-00	RES,CHIP	12K	5%	1/10W
R2304	1-216-073-00	RES,CHIP	10K	5%	1/10W
R2305	1-216-075-00	RES,CHIP	12K	5%	1/10W
R2306	1-216-073-00	RES,CHIP	10K	5%	1/10W
R2307	1-216-089-91	RES,CHIP	47K	5%	1/10W
R2308	1-216-089-91	RES,CHIP	47K	5%	1/10W
R2309	1-216-067-00	RES,CHIP	5.6K	5%	1/10W
R2310	1-216-067-00	RES,CHIP	5.6K	5%	1/10W
R2311	1-216-067-00	RES,CHIP	5.6K	5%	1/10W
R2312	1-216-067-00	RES,CHIP	5.6K	5%	1/10W
R2313	1-216-025-91	RES,CHIP	100	5%	1/10W
R2314	1-216-025-91	RES,CHIP	100	5%	1/10W
R2315	1-216-025-91	RES,CHIP	100	5%	1/10W
R2316	1-216-025-91	RES,CHIP	100	5%	1/10W
R2601	1-216-009-91	RES,CHIP	22	5%	1/10W
R2602	1-216-009-91	RES,CHIP	22	5%	1/10W
R2604	1-216-039-00	RES,CHIP	390	5%	1/10W
R2605	1-216-085-00	RES,CHIP	33K	5%	1/10W
R2606	1-216-039-00	RES,CHIP	390	5%	1/10W
R2607	1-216-073-00	RES,CHIP	10K	5%	1/10W
R2608	1-216-097-91	RES,CHIP	100K	5%	1/10W
R2609	1-216-073-00	RES,CHIP	10K	5%	1/10W
R2610	1-216-077-00	RES,CHIP	15K	5%	1/10W
R2611	1-216-085-00	RES,CHIP	33K	5%	1/10W
R2612	1-216-357-00	METAL OXIDE	4.7	5%	1W F
R2613	1-216-357-00	METAL OXIDE	4.7	5%	1W F
R2614	1-216-073-00	RES,CHIP	10K	5%	1/10W
R2616	1-216-073-00	RES,CHIP	10K	5%	1/10W
R2617	1-216-689-11	RES,CHIP	39K	5%	1/10W
R2618	1-216-689-11	RES,CHIP	39K	5%	1/10W
R2619	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R2620	1-216-067-00	RES,CHIP	5.6K	5%	1/10W
R2621	1-216-009-91	RES,CHIP	22	5%	1/10W
R2622	1-216-081-00	RES,CHIP	22K	5%	1/10W
R2623	1-216-039-00	RES,CHIP	390	5%	1/10W
R2624	1-216-085-00	RES,CHIP	33K	5%	1/10W
R2625	1-216-081-00	RES,CHIP	22K	5%	1/10W
R2626	1-216-357-00	METAL OXIDE	4.7	5%	1W F
R2627	1-216-089-91	RES,CHIP	47K	5%	1/10W
R2628	1-216-089-91	RES,CHIP	47K	5%	1/10W
R2629	1-216-689-11	RES,CHIP	39K	5%	1/10W
R2630	1-216-049-91	RES,CHIP	1K	5%	1/10W
R2631	1-216-073-00	RES,CHIP	10K	5%	1/10W
R2632	1-216-073-00	RES,CHIP	10K	5%	1/10W
R2633	1-216-097-91	RES,CHIP	100K	5%	1/10W
R2634	1-216-073-00	RES,CHIP	10K	5%	1/10W
R2635	1-216-077-00	RES,CHIP	15K	5%	1/10W

Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

REF. NO.	PART NO.	DESCRIPTION			REMARK
R2636	1-216-085-00	RES,CHIP	33K	5%	1/10W
R2637	1-216-041-00	RES,CHIP	470	5%	1/10W
R2638	1-216-041-00	RES,CHIP	470	5%	1/10W
R2639	1-216-079-00	RES,CHIP	18K	5%	1/10W
R2640	1-216-041-00	RES,CHIP	470	5%	1/10W
R2641	1-216-041-00	RES,CHIP	470	5%	1/10W
R2642	1-216-079-00	RES,CHIP	18K	5%	1/10W
R2643	1-216-079-00	RES,CHIP	18K	5%	1/10W
R2644	1-216-079-00	RES,CHIP	18K	5%	1/10W
R2645	1-216-357-00	METAL OXIDE	4.7	5%	1W F
R2646	1-216-357-00	METAL OXIDE	4.7	5%	1W F
R2647	1-216-083-00	RES,CHIP	27K	5%	1/10W
R2648	1-216-083-00	RES,CHIP	27K	5%	1/10W
R2649	1-216-075-00	RES,CHIP	12K	5%	1/10W
R2650	1-216-089-91	RES,CHIP	47K	5%	1/10W
R2651	1-216-049-91	RES,CHIP	1K	5%	1/10W
R2652	1-216-025-91	RES,CHIP	100	5%	1/10W
R2653	1-216-049-91	RES,CHIP	1K	5%	1/10W
R2654	1-216-073-00	RES,CHIP	10K	5%	1/10W
R2655	1-216-049-91	RES,CHIP	1K	5%	1/10W
R2656	1-216-083-00	RES,CHIP	27K	5%	1/10W
R2657	1-216-083-00	RES,CHIP	27K	5%	1/10W
R2658	1-216-083-00	RES,CHIP	27K	5%	1/10W
R2659	1-216-085-00	RES,CHIP	33K	5%	1/10W
R2660	1-216-073-00	RES,CHIP	10K	5%	1/10W
R2662	1-216-073-00	RES,CHIP	10K	5%	1/10W
R2663	1-216-073-00	RES,CHIP	10K	5%	1/10W
R2801	1-216-113-00	RES,CHIP	470K	5%	1/10W
R2802	1-216-041-00	RES,CHIP	470	5%	1/10W
R2804	1-216-113-00	RES,CHIP	470K	5%	1/10W
R2805	1-216-041-00	RES,CHIP	470	5%	1/10W
R2806	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R2807	1-216-089-91	RES,CHIP	47K	5%	1/10W
R2808	1-216-089-91	RES,CHIP	47K	5%	1/10W
R2809	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R2810	1-216-113-00	RES,CHIP	470K	5%	1/10W
R2811	1-216-041-00	RES,CHIP	470	5%	1/10W
R2813	1-216-113-00	RES,CHIP	470K	5%	1/10W
R2814	1-216-041-00	RES,CHIP	470	5%	1/10W
R2815	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R2816	1-216-089-91	RES,CHIP	47K	5%	1/10W
R2817	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R2818	1-216-089-91	RES,CHIP	47K	5%	1/10W
R2819	1-216-073-00	RES,CHIP	10K	5%	1/10W
R2820	1-216-073-00	RES,CHIP	10K	5%	1/10W

<RELAY>

RY2601	1-755-028-11	RELAY	

<TERMINAL BOARD>

TB2601	1-694-441-11	TERMINAL, PUSH	
TB2602	1-694-442-11	TERMINAL, PUSH	

REF. NO.	PART NO.	DESCRIPTION			REMARK
		<CRYSTAL>			
X2101	1-577-358-21	VIBRATOR,CERAMIC			

****

* A-1390-834-A ZR BOARD, COMPLETE (COM)
****

	4-382-854-11	SCREW (M3X10), P, SW (+)			
		<CAPACITOR>			
C4101	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C4102	1-104-664-11	ELECT	47µF	20%	16V
C4103	1-107-667-11	ELECT	2.2µF	20%	160V
C4104	1-130-471-00	FILM	0.001µF	5%	50V
C4105	1-130-471-00	FILM	0.001µF	5%	50V
C4106	1-104-987-11	FILM	0.001µF	10%	200V
C4107	1-104-987-11	FILM	0.001µF	10%	200V
C4108	1-107-364-11	MYLAR	0.01µF	10%	200V
C4109	1-126-968-11	ELECT	100µF	20%	50V
C4110	1-107-645-11	ELECT	22µF	20%	160V
C4111	1-126-968-11	ELECT	100µF	20%	50V
C4112	1-161-830-00	CERAMIC	0.0047µF	500V	
C4113	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C4114	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C4115	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C4116	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
		<CONNECTOR>			
CN4101*	1-564-509-11	PLUG, CONNECTOR	6P		
CN4102*	1-564-506-11	PLUG, CONNECTOR	3P		
CN4104*	1-564-507-11	PLUG, CONNECTOR	4P		
CN4105*	1-564-506-11	PLUG, CONNECTOR	3P		
CN4107*	1-580-690-11	PIN, CONNECTOR (PC BOARD)			4P
		<DIODE>			
D4101	8-719-060-48	DIODE RB751V-40TE-17			
D4102	8-719-921-86	DIODE MTZJ-13			
D4103	8-719-921-86	DIODE MTZJ-13			
D4104	8-719-404-50	DIODE MA111-TX			
		<CONNECTOR>			
DY4101⚠	1-451-492-11	DEFLECTION YOKE			
		<COIL>			
L4101	1-414-183-41	INDUCTOR	10µH		
L4102	1-414-187-11	INDUCTOR	47µH		
		<TRANSISTOR>			
Q4101	8-729-216-22	TRANSISTOR 2SA1162-G			

Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

REF. NO.	PART NO.	DESCRIPTION			REMARK
Q4103	8-729-422-27	TRANSISTOR 2SD601A-Q			
Q4104	8-729-045-04	TRANSISTOR 2SC5511			
Q4105	8-729-045-05	TRANSISTOR 2SA2005			
Q4106	8-729-422-27	TRANSISTOR 2SD601A-Q			
Q4107	8-729-422-27	TRANSISTOR 2SD601A-Q			
Q4108	8-729-216-22	TRANSISTOR 2SA1162-G			
Q4109	8-729-216-22	TRANSISTOR 2SA1162-G			
Q4110	8-729-422-27	TRANSISTOR 2SD601A-Q			
		<RESISTOR>			
R4101	1-216-033-00	RES,CHIP	220	5%	1/10W
R4102	1-208-802-11	RES,CHIP	6.8K	0.50%	1/10W
R4103	1-208-793-11	RES,CHIP	3K	0.50%	1/10W
R4104	1-216-001-00	RES,CHIP	10	5%	1/10W
R4105	1-216-475-11	METAL OXIDE	120	5%	3W F
R4106	1-216-073-00	RES,CHIP	10K	5%	1/10W
R4107	1-216-475-11	METAL OXIDE	120	5%	3W F
R4108	1-216-033-00	RES,CHIP	220	5%	1/10W
R4109	1-216-025-91	RES,CHIP	100	5%	1/10W
R4110	1-249-414-11	CARBON	560	5%	1/4W
R4111	1-247-863-91	CARBON	22K	5%	1/4W
R4112	1-216-001-00	RES,CHIP	10	5%	1/10W
R4113	1-249-417-11	CARBON	1K	5%	1/4W F
R4114	1-249-414-11	CARBON	560	5%	1/4W
R4115	1-247-863-91	CARBON	22K	5%	1/4W
R4116	1-249-397-11	CARBON	22	5%	1/4W F
R4117	1-249-415-11	CARBON	680	5%	1/4W F
R4118	1-249-415-11	CARBON	680	5%	1/4W F
R4119	1-249-384-11	CARBON	1.8	5%	1/4W F
R4120	1-249-384-11	CARBON	1.8	5%	1/4W F
R4121	1-249-399-11	CARBON	33	5%	1/4W F
R4122	1-249-399-11	CARBON	33	5%	1/4W F
R4123	1-216-476-11	METAL OXIDE	180	5%	3W F
R4124	1-208-806-11	RES,CHIP	10K	0.50%	1/10W
R4125	1-208-806-11	RES,CHIP	10K	0.50%	1/10W
R4126	1-216-025-91	RES,CHIP	100	5%	1/10W
R4127	1-216-049-91	RES,CHIP	1K	5%	1/10W
R4128	1-216-049-91	RES,CHIP	1K	5%	1/10W

****

* A-1390-835-A ZG BOARD, COMPLETE (COM)
****

4-382-854-11 SCREW (M3X10), P, SW (+)

<CAPACITOR>

C4201	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C4202	1-107-667-11	ELECT	2.2µF	20%	160V
C4203	1-130-471-00	FILM	0.001µF	5%	50V
C4204	1-130-471-00	FILM	0.001µF	5%	50V
C4205	1-104-987-11	FILM	0.001µF	10%	200V
C4206	1-104-987-11	FILM	0.001µF	10%	200V
C4207	1-107-364-11	MYLAR	0.01µF	10%	200V
C4208	1-126-968-11	ELECT	100µF	20%	50V
C4209	1-126-968-11	ELECT	100µF	20%	50V
C4210	1-107-645-11	ELECT	22µF	20%	160V
C4211	1-161-830-00	CERAMIC	0.0047µF	500V	
C4212	1-106-220-00	MYLAR	0.1µF	10%	100V
C4213	1-106-220-00	MYLAR	0.1µF	10%	100V
C4214	1-104-664-11	ELECT	47µF	20%	16V
C4215	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C4216	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C4217	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C4218	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V

<CONNECTOR>

CN4201*	1-564-509-11	PLUG, CONNECTOR	6P	
CN4202*	1-564-509-11	PLUG, CONNECTOR	6P	
CN4203*	1-564-507-11	PLUG, CONNECTOR	4P	
CN4204*	1-564-506-11	PLUG, CONNECTOR	3P	
CN4205*	1-564-506-11	PLUG, CONNECTOR	3P	
CN4206*	1-580-689-11	PIN, CONNECTOR (PC BOARD)		4P
CN4207*	1-564-506-11	PLUG, CONNECTOR	3P	

<DIODE>

D4201	8-719-921-86	DIODE	MTZJ-13
D4202	8-719-921-86	DIODE	MTZJ-13
D4203	8-719-060-48	DIODE	RB751V-40TE-17
D4204	8-719-404-50	DIODE	MA111-TX

<CONNECTOR>

DY4201⚠1-451-492-11 DEFLECTION YOKE

<COIL>

L4201	1-414-187-11	INDUCTOR	47µH
L4202	1-414-183-41	INDUCTOR	10µH

<TRANSISTOR>

Q4201	8-729-216-22	TRANSISTOR	2SA1162-G
Q4202	8-729-422-27	TRANSISTOR	2SD601A-Q
Q4203	8-729-045-04	TRANSISTOR	2SC5511
Q4204	8-729-045-05	TRANSISTOR	2SA2005
Q4205	8-729-422-27	TRANSISTOR	2SD601A-Q
Q4206	8-729-422-27	TRANSISTOR	2SD601A-Q
Q4207	8-729-422-27	TRANSISTOR	2SD601A-Q
Q4208	8-729-216-22	TRANSISTOR	2SA1162-G
Q4209	8-729-216-22	TRANSISTOR	2SA1162-G

<RESISTOR>

R4201	1-216-033-00	RES,CHIP	220	5%	1/10W
R4202	1-216-475-11	METAL OXIDE	120	5%	3W F
R4203	1-216-033-00	RES,CHIP	220	5%	1/10W
R4204	1-216-001-00	RES,CHIP	10	5%	1/10W
R4205	1-216-001-00	RES,CHIP	10	5%	1/10W
R4206	1-216-475-11	METAL OXIDE	120	5%	3W F

ZG **ZB**

Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

REF. NO.	PART NO.	DESCRIPTION			REMARK
R4207	1-249-397-11	CARBON	22	5%	1/4W F
R4208	1-247-863-91	CARBON	22K	5%	1/4W
R4209	1-249-414-11	CARBON	560	5%	1/4W
R4210	1-249-415-11	CARBON	680	5%	1/4W F
R4211	1-249-414-11	CARBON	560	5%	1/4W
R4212	1-247-863-91	CARBON	22K	5%	1/4W
R4213	1-249-415-11	CARBON	680	5%	1/4W F
R4214	1-249-417-11	CARBON	1K	5%	1/4W F
R4215	1-249-384-11	CARBON	1.8	5%	1/4W F
R4216	1-249-384-11	CARBON	1.8	5%	1/4W F
R4217	1-249-399-11	CARBON	33	5%	1/4W F
R4218	1-249-399-11	CARBON	33	5%	1/4W F
R4219	1-216-476-11	METAL OXIDE	180	5%	3W F
R4221	1-208-806-11	RES,CHIP	10K	0.50%	1/10W
R4222	1-208-802-11	RES,CHIP	6.8K	0.50%	1/10W
R4223	1-208-793-11	RES,CHIP	3K	0.50%	1/10W
R4224	1-208-806-11	RES,CHIP	10K	0.50%	1/10W
R4225	1-216-073-00	RES,CHIP	10K	5%	1/10W
R4226	1-216-025-91	RES,CHIP	100	5%	1/10W
R4227	1-216-025-91	RES,CHIP	100	5%	1/10W
R4228	1-216-049-91	RES,CHIP	1K	5%	1/10W
R4229	1-216-049-91	RES,CHIP	1K	5%	1/10W

****

* A-1390-836-A ZB BOARD, COMPLETE (COM)
****

4-382-854-11 SCREW (M3X10), P, SW (+)

<CAPACITOR>

C4301	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C4302	1-107-667-11	ELECT	2.2µF	20%	160V
C4303	1-130-471-00	FILM	0.001µF	5%	50V
C4304	1-130-471-00	FILM	0.001µF	5%	50V
C4305	1-104-987-11	FILM	0.001µF	10%	200V
C4306	1-104-987-11	FILM	0.001µF	10%	200V
C4307	1-107-364-11	MYLAR	0.01µF	10%	200V
C4308	1-126-968-11	ELECT	100µF	20%	50V
C4309	1-126-968-11	ELECT	100µF	20%	50V
C4310	1-107-645-11	ELECT	22µF	20%	160V
C4311	1-161-830-00	CERAMIC	0.0047µF	500V	
C4312	1-104-664-11	ELECT	47µF	20%	16V
C4313	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C4314	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C4315	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C4316	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V

<CONNECTOR>

CN4301*	1-564-509-11	PLUG, CONNECTOR	6P	
CN4302*	1-564-507-11	PLUG, CONNECTOR	4P	
CN4303*	1-564-506-11	PLUG, CONNECTOR	3P	
CN4304*	1-580-690-11	PIN, CONNECTOR (PC BOARD)		4P
CN4305*	1-564-506-11	PLUG, CONNECTOR	3P	

REF. NO.	PART NO.	DESCRIPTION			REMARK

<DIODE>

D4301	8-719-921-86	DIODE	MTZJ-13
D4302	8-719-921-86	DIODE	MTZJ-13
D4303	8-719-060-48	DIODE	RB751V-40TE-17
D4304	8-719-404-50	DIODE	MA111-TX

<CONNECTOR>

DY4301⚠1-451-492-11 DEFLECTION YOKE

<COIL>

L4301	1-414-187-11	INDUCTOR	47µH
L4302	1-414-183-41	INDUCTOR	10µH

<TRANSISTOR>

Q4301	8-729-216-22	TRANSISTOR	2SA1162-G
Q4302	8-729-422-27	TRANSISTOR	2SD601A-Q
Q4303	8-729-045-04	TRANSISTOR	2SC5511
Q4304	8-729-045-05	TRANSISTOR	2SA2005
Q4305	8-729-422-27	TRANSISTOR	2SD601A-Q
Q4306	8-729-422-27	TRANSISTOR	2SD601A-Q
Q4307	8-729-422-27	TRANSISTOR	2SD601A-Q
Q4308	8-729-216-22	TRANSISTOR	2SA1162-G
Q4309	8-729-216-22	TRANSISTOR	2SA1162-G

<RESISTOR>

R4301	1-216-033-00	RES,CHIP	220	5%	1/10W
R4302	1-216-033-00	RES,CHIP	220	5%	1/10W
R4303	1-216-001-00	RES,CHIP	10	5%	1/10W
R4304	1-216-475-11	METAL OXIDE	120	5%	3W F
R4305	1-216-001-00	RES,CHIP	10	5%	1/10W
R4306	1-216-475-11	METAL OXIDE	120	5%	3W F
R4307	1-249-397-11	CARBON	22	5%	1/4W F
R4308	1-247-863-91	CARBON	22K	5%	1/4W
R4309	1-249-414-11	CARBON	560	5%	1/4W
R4310	1-249-415-11	CARBON	680	5%	1/4W F
R4311	1-249-414-11	CARBON	560	5%	1/4W
R4312	1-247-863-91	CARBON	22K	5%	1/4W
R4313	1-249-415-11	CARBON	680	5%	1/4W F
R4314	1-249-417-11	CARBON	1K	5%	1/4W F
R4315	1-249-384-11	CARBON	1.8	5%	1/4W F
R4316	1-249-384-11	CARBON	1.8	5%	1/4W F
R4317	1-249-399-11	CARBON	33	5%	1/4W F
R4318	1-249-399-11	CARBON	33	5%	1/4W F
R4319	1-216-476-11	METAL OXIDE	180	5%	3W F
R4321	1-208-806-11	RES,CHIP	10K	0.50%	1/10W
R4322	1-208-802-11	RES,CHIP	6.8K	0.50%	1/10W
R4323	1-208-793-11	RES,CHIP	3K	0.50%	1/10W
R4324	1-208-806-11	RES,CHIP	10K	0.50%	1/10W
R4325	1-216-073-00	RES,CHIP	10K	5%	1/10W
R4326	1-216-025-91	RES,CHIP	100	5%	1/10W
R4327	1-216-025-91	RES,CHIP	100	5%	1/10W
R4328	1-216-049-91	RES,CHIP	1K	5%	1/10W
R4329	1-216-049-91	RES,CHIP	1K	5%	1/10W

Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

REF. NO.		PART NO.	DESCRIPTION	REMARK
			MISCELLANEOUS	
			**********	
13		1-529-272-11	SPEAKER (16cm)	
14		1-529-273-11	SPEAKER (8cm)	
15		1-529-274-11	SPEAKER (2cm)	
22		1-529-349-11	SPEAKER (10cm)	
63		1-528-911-11	BATTERY, SOLAR	
66		8-208-150-05	CS-65	
110	⚠	1-453-285-11	FBT ASSY, NX-4006//X4P	
113	*	1-556-945-21	CABLE, P-P	
114	*	1-557-056-31	CABLE, P-P	
115		1-251-321-12	SELECTOR, ANTENNA	
120	⚠	1-783-595-11	CORD, NOISE FILTER WITH POWER	
125	*	1-761-194-11	DTV-STB (SET TOP BOX)	
126		1-783-979-21	CABLE ASSY (EVC CONNECTOR X2)	
152	⚠	8-733-591-05	07MVC4(R), PICTURE, TUBE	
153	⚠	1-451-492-11	DEFELECTION YOKE	
155	⚠	1-452-790-21	NECK ASSY	
157	⚠	8-733-592-05	07MVC2(G), PICTURE TUBE	
160	⚠	8-733-590-05	07MVC4(B), PICTURE TUBE	
163	⚠	1-223-925-11	RESISTOR ASSY (HIGH-VOLTAGE)	
166	⚠	8-598-955-12	BLOCK ASSY, HIGH-VOLTAGE	
			ACCESSORIES AND PACKING MATERIALS	
			**********	
	*	0-517-718-00	INDIVIDUAL CARTON	
		3-866-010-11	MANUAL, INSTRUCTION	
	*	4-069-555-01	CUSHION, UPPER (ASSY)	
	*	4-069-556-01	CUSHION, LOWER (ASSY)	
	*	4-069-945-01	CARTON (FRONT)	
	*	4-069-946-01	CARTON (REAR)	
	*	4-069-949-01	TRAY	
	*	4-069-950-01	BOARD, TOP	
			REMOTE COMMANDER	
			**********	
		1-418-268-11	REMOTE COMMANDER (RM-Y904)	
		9-933-736-01	COVER, BATTERY (FOR RM-Y904)	

9-965-251-01

Sony Ichinomiya Corporation
Quality Assurance Division

English
99CH74380-1
Printed in USA
©1999.3